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TABLES OF PROBABILITY OF DAMAGE CALCULATIONS FOR POINT AND CIRCULAR NORMAL AREA TARGETS

Science Applications, Inc. 1200 Prospect Street La Jolla, California 92037

19 July 1976

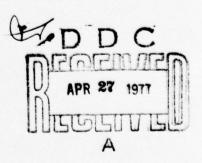
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SECTION I

INTRODUCTION

This report contains tables of probabilities of damage to point or circular normal area targets using the cumulative log-normal damage function. The probability of damage for such a target is a combination of three probabilities: the probability that a target receives at least a certain amount of damage (called the distance damage function); the distribution of weapon impact points (CEP); and the density of the target area (R95). In order to easily evaluate the combined probabilities, we utilize analytic approximations for these separate distributions. The complement of the cumulative lognormal function is used as the analytic approximation to the distance damage function, and the circular normal function represents the joint density of the impact distribution and the target density.

Prior to 1972, the distance damage function was described by a circular normal distribution. The joint distribution of the distance damage function, impact distribution and target density was referred to as the circular coverage function. Tabular evaluations of the circular coverage function had been in use for many years. However, since 1972, the complement of the cumulative lognormal function has been used to approximate the damage function. In adapting this approximation for use at Science Applications, Inc., adequate evaluations for comparison and verification could not be located. Consequently, these tables were produced for this purpose. The following pages give a brief description of the geometrical meaning and mathematical background of the tables and a brief discussion concerning the formulation and use of the tables. A more detailed explanation of the mathematical background and programming techniques used to generate these tables can be found in Reference 3.

^{1.}H.H. Germond, "The Circular Coverage Function", Project RAND Research Memorandum RM-330, The Rand Corporation, 26 January 1950.

^{2. &}quot;Offset Circle Probabilities", R-234, The Rand Corporation, 14 March 1952.

^{3. &}quot;Mathematical Background and Programming Aids for the Physical Vulnerability System for Nuclear Weapons", DI-550-27-74, Defense Intelligence Agency, 1 November 1974.

SECTION II

PROBABILITY OF DAMAGE ANALYSIS

This Section gives a geometrical interpretation and a mathematical definition of the problem at hand. It is drawn largely from Reference 3 and unpublished material by the authors.

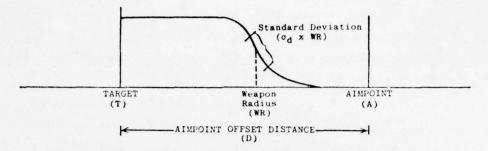
The basic problem is to calculate the probability of target damage from a single weapon. If the target has an extended area, the probability of damage is replaced by the expected fraction of the target damaged. In this report, the term "probability of damage" is used for both point and extended area targets. The solution of this problem requires the integration of three independent probability distributions—the distance damage function, the weapon impact distribution and the target density distribution. The distance damage function is represented by the complement of the cumulative lognormal function. The weapon impact distribution and the target density are represented by the circular coverage function. A geometric interpretation follows:

Assume that a weapon is aimed at point A, which is offset from the target T the distance D, as shown in Figure 1. The distance damage function is defined by the weapon radius (WR) and the distance damage sigma (σ_d) (see Figure 1A). WR is the radius of a circle centered at the impact point that contains as much area inside that is undamaged to a specified level as there is damaged outside. σ_d is the standard deviation of the distance damage function divided by the weapon radius. Analytically, we approximate P_d , the distance damage function by the complement of the cumulative lognormal function as

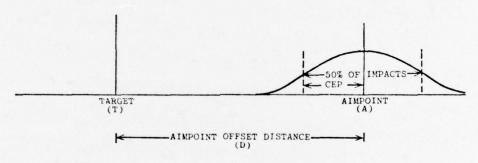
$$P_{d}(r) = \int_{-\infty}^{z(r)} \frac{1}{\sqrt{2\pi}} e^{-y^{2}/2} dy = .5 \left(1 + \frac{|z|}{z} \operatorname{erf}\left(\frac{|z|}{\sqrt{2}}\right)\right)$$

$$z(r) = \frac{1}{\beta} \ln\left(W_{R} \frac{e^{-\beta^{2}}}{r}\right)$$

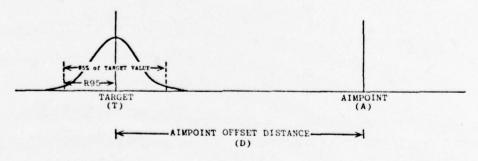
$$\beta = \left(-\ln\left(1 - \sigma_{d}^{2}\right)\right)^{1/2}$$



A. Distance Damage Function



B. Impact Distribution



C. Target Value Distribution

Figure 1. Probability of Damage Distribution Functions

Using the distance damage function, we can calculate an average probability of damage to a point target for each detonation point by weighting $P_{\mbox{d}}$ by the probability that the weapon lands at that detonation point, called the impact distribution.

The circular normal impact distribution is depicted graphically in Figure 1B. It is defined by the Circular Error Probable (CEP), which is a circle about the aimpoint which contains 50 percent of the impacts. The probability that a weapon will impact within a distance $R \le r \le R + \Delta R$ of a target T, assuming an aimpoint offset of D is:

$$f(r) = \int_{0}^{2\pi} \frac{1}{2\pi\sigma_{CEP}^{2}} e^{-\left(\rho^{2}/2\sigma_{CEP}^{2}\right)} d\theta R \Delta R$$

$$\rho = R^{2} + D^{2} - 2RD \cos \theta$$

$$\sigma_{CEP} = CEP/\sqrt{2 \ln 2}$$

If we have an extended area target, we must consider the target density distribution. It is illustrated in Figure 1C and is also assumed to be a circular normal distribution. It is defined by the R95 radius which is a circle centered at the target which contains 95 percent of the target value distribution. Since the target density f(t) and the delivery error f(r) are independent normal distributions, the joint distribution is $f(r,t) = f(r) \cdot f(t)$, and it is referred to as a circular normal distribution. Also, the variances can be combined as $\sigma_a^2 = \sigma_t^2 + \sigma_{CEP}^2$, where σ_a^2 is the variance of the joint distribution. Hence,

$$CEP_a = (CEP^2 + \frac{\ln 2}{\ln 20} \cdot R95^2)^{1/2}$$
.

To find the probability of achieving the desired level of damage, PD , to the specified target T , we must integrate all three distributions:

$$PD = \int_0^\infty P_d(r) f(r) dr.$$

This representation assumes that σ_a^2 replaces σ_{CEP}^2 in the f(r) equation shown above.

SECTION III

TABULAR RESULTS

This section explains how to use the tables. It includes a nomograph which tells when and how to replace CEP with the adjusted CEP (CEP_a) in order to account for distributed area targets. It also explains the organization of the tables in terms of the parameters used and gives several examples. Finally, it discusses the table limits as certain variables increase without limit.

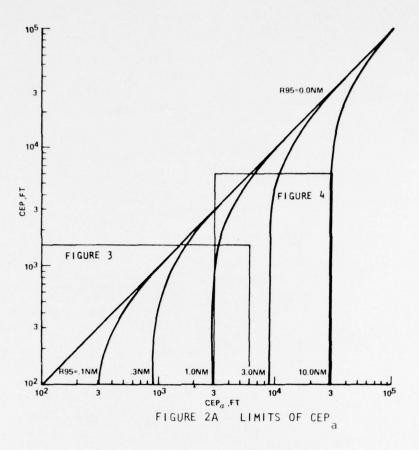
3.1 USE OF ADJUSTED CEP

No CEP adjustment is necessary for point targets. For circular normal distributed area targets, the target density distribution can be included by adjusting the CEP as explained in Section 2. The exact equation for the adjusted CEP is:

$$CEP_{a} = \left[CEP^{2} + \frac{\ln 2}{\ln 20} (R95 * 6076.1155)^{2} \right]^{1/2}$$
$$= \left[CEP^{2} + 8542294 * R95^{2} \right]^{1/2}$$

The "ln 2/ln 20" term converts the 95th percentile of the R95 distribution to the 50th percentile used for CEP. The "6076.1155" factor converts nautical miles to feet.

As can be seen by the equation, CEP $_{\rm a}$ is composed of two terms, CEP and R95. Usually one or the other of these terms dominate. Figure 2A shows the limits of CEP $_{\rm a}$ for a wide range of values of CEP and R95. The diagonal line is for an R95 of zero and CEP $_{\rm a}$ equals CEP. The vertical lines are for when R95 dominates and CEP $_{\rm a}$ equals R95 times 2923. Also indicated are nomographs (Figures 3 and 4) from which one can obtain more precise values of CEP $_{\rm a}$, given CEP and R95. Figure 2B shows when to use the nomographs and when to use the approximations. The boundaries were chosen to ensure an accuracy of at least .01 in the final probability of damage (PD) result.



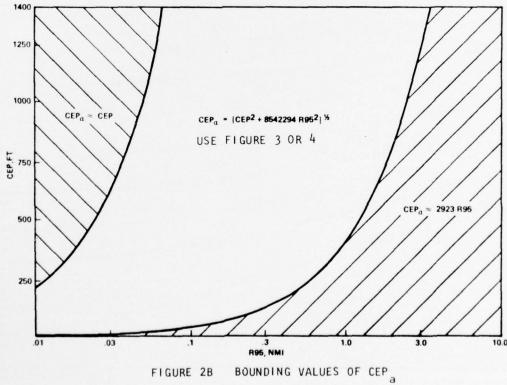
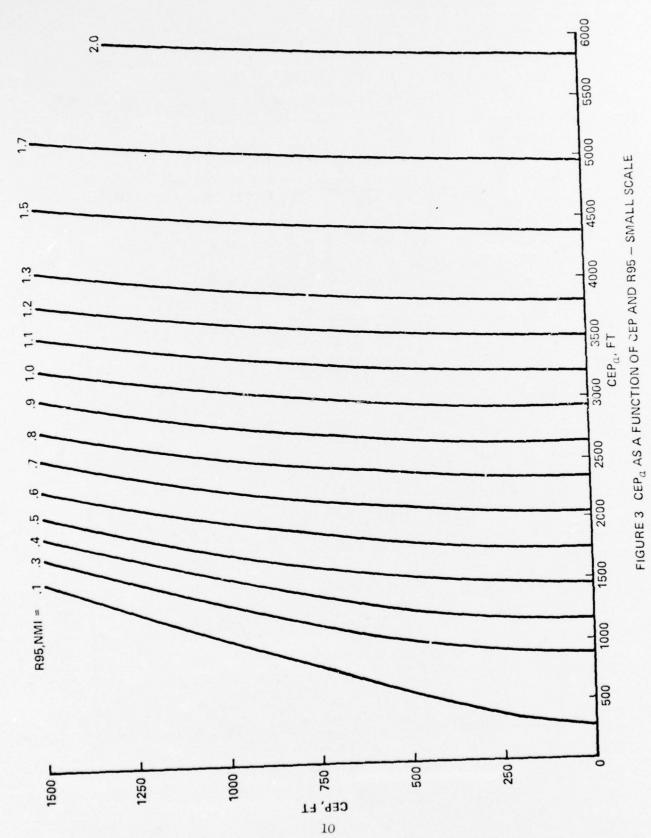


Figure 2. Evaluation of CEP_a



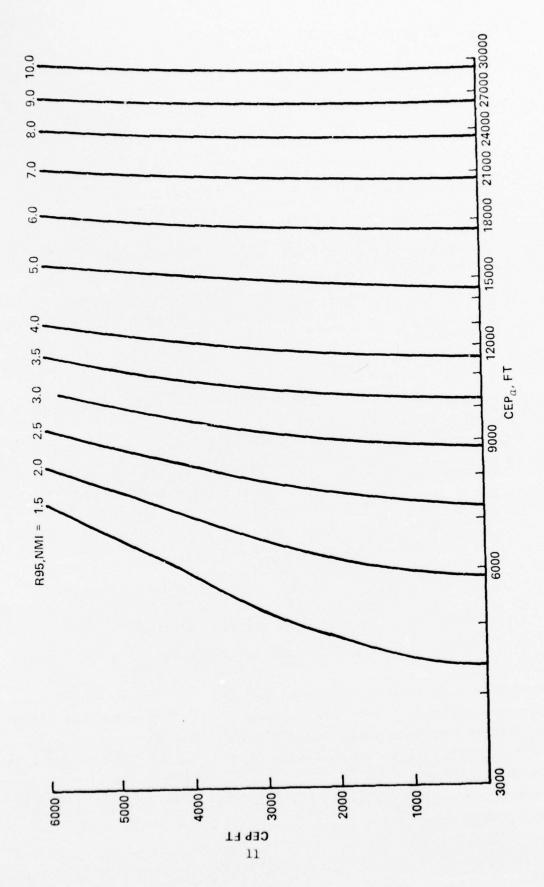


FIGURE 4 CEP $_a$ AS A FUNCTION OF CEP AND R95 – LARGE SCALE

3.2 TABLE ORGANIZATION

As explained in Section 2, in order to determine the probability of damage (PD) to a point or circular normal area target, it is necessary to integrate over three distributions. These distributions are represented by the following parameters:

Distance Damage Function: WR, σ_d Weapon Impact Distribution: CEP, D Target Density: R95

As mentioned above, the CEP and R95 can be combined as the adjusted CEP_a , leaving us with four parameters (WR, σ_d , CEP $_a$, D). By normalizing one of the parameters and by using separate tables for discrete values of σ_d we reduce the presentation format to double-entry tables of PD .

3.2.1 Standard Parameter Set

The probability of damage (PD) to a point or circular normal area target has been evaluated as a function of WR/CEP $_a$ versus D/WR . WR is the weapon radius, CEP $_a$ the circular error probable of the joint distribution of the target density and the impact distribution, σ_d x WR the standard deviation of the distance damage function, and D the offset distance from the aimpoint to the target. The standard data set is chosen as follows:

 σ_d : 10, 20, 30, 40, 50% of WR CEPa: 1000 feet WR/CEPa: 0.0 - 20.0 in varying intervals D/WR: 0.0 - 4.8 in varying intervals.

PD has been tabulated in terms of WR/CEP $_a$ to eliminate CEP $_a$ as a table input variable. The intervals have been chosen so that linear interpolation between tabulated values will give three digit accuracy (\pm .002). Interpolation between tables of σ_d is not recommended as the accuracy is unknown. The upper bounds on WR/CEP $_a$ and D/WR were chosen to exhibit PD approaching definite limits. These limits are discussed in Section 3.4.

3.3 USE OF TABLES - EXAMPLE PROBLEMS

3.3.1 Example 1 - Point Target

A single bomb with a weapon radius of 2500 feet is aimed at a point 2000 feet from a point target. The weapon has a 1000 foot CEP accuracy and the standard deviation of the distance damage function sigma is thirty percent (30%) of the weapon radius. Hence,

CEP = 1000 feet D = 2000 feet WR = 2500 feet σ_{d} = 30% of WR

R95 = 0

 $CEP_a = CEP = 1000 \text{ feet}$ $WR/CEP_a = 2500/1000 = 2.5$ D/WR = 2000/2500 = 0.8

hecking the table for σ_d = 30% of WR (page 36), we obtain.

PD = .5572

3.3.2 Example 2 - Area Target

A weapon is aimed at a point 8000 feet away from the center of a circular normal distributed area whose R95 radius is one nautical mile. The weapon radius is 6.4 Kft and the distance damage function sigma is forty percent (40%) of the weapon radius. The CEP is 1300 ft. Hence,

CEP = 1300 feet D = 8000 feet WR = 6400 feet $\sigma_{d} = 40\% \text{ of WR}$ R95 = 1 n.mi. $CEP_{a} = \left[1300^{2} + 8542294(1^{2})\right]^{1/2} = 3200 \text{ feet}$ $WR/CEP_{a} = 6400/3200 = 2.0$

D/WR = 8000/6400 = 1.25

Checking the table for σ_d = 40% of WR (page 46), we obtain:

$$PD = .2201$$

3.3.3 Example 3 - Table Interpolation

In example 1, assume that the weapon radius is changed to 3000 feet and the CEP to 900 feet. Hence,

CEP = 900 feet
$$D = 2000 feet$$

$$WR = 3000 feet$$

$$\sigma_{d} = 30\% of WR$$

$$R95 = 0$$

$$CEP_a = CEP = 900 \text{ feet}$$
 $WR/CEP_a = 3000/900 = 3 1/3$
 $D/WR = 2000/3000 = 2/3$

To find PD we must use double linear interpolation between the table entries from page 38.

			WR/CEP _a	
		3.20 C ₁	3 1/3 B	3.40 C ₂
	.66 D ₁	.7214 T ₁₁	B ₁	.7320 ^T 12
D/WR	2/3 A	A ₁	PD	A ₂
	.68 D ₂	.7037 T ₂₁	В2	.7139 T ₂₂

Given the data in the table above, there are two equivalent ways to find the desired answer, PD. We can solve for $\rm A_1$ and $\rm A_2$ and then interpolate for PD , or we can solve for $\rm B_1$ and $\rm B_2$ and then PD. Both methods are shown below.

Interpolation Method A

$$\begin{aligned} & \mathbf{A}_1 = \mathbf{T}_{11} + (\mathbf{T}_{21} - \mathbf{T}_{11}) \left[(\mathbf{A} - \mathbf{D}_1) / (\mathbf{D}_2 - \mathbf{D}_1) \right] \\ & = .7214 + (.7037 - .7214) \left[.00667 / .0200 \right] \\ & = .715 \end{aligned}$$

$$& \mathbf{A}_2 = \mathbf{T}_{12} + (\mathbf{T}_{22} - \mathbf{T}_{12}) \left[(\mathbf{A} - \mathbf{D}_1) / (\mathbf{D}_2 - \mathbf{D}_1) \right] \\ & = .7320 + (.7139 - .7320) \left[.00667 / .0200 \right] \\ & = .726 \end{aligned}$$

$$& \mathbf{PD} = \mathbf{A}_1 + (\mathbf{A}_2 - \mathbf{A}_1) \left[(\mathbf{B} - \mathbf{C}_1) / (\mathbf{C}_2 - \mathbf{C}_1) \right] \\ & = .715 + (.726 - .715) \left[.133 / .200 \right] \\ & = .722 \end{aligned}$$

Interpolation Method B

$$B_{1} = T_{11} + (T_{12} - T_{11}) [(B - C_{1})/(C_{2} - C_{1})]$$

$$= .7214 + (.7320 - .7214) [.133/.200]$$

$$= .728$$

$$B_{2} = T_{21} + (T_{22} - T_{21}) [(B - C_{1})/(C_{2} - C_{1})]$$

$$= .7037 + (.7139 - .7037) [.133/.200]$$

$$= .710$$

$$PD = B_{1} + (B_{2} - B_{1}) [(A - D_{1})/(D_{2} - D_{1})]$$

$$= .728 + (.710 - .728) [.00667/.0200]$$

$$= .722$$

3.3.4 Example 4 - Required Offset Distance for Given PD

In example 2, assume that it is desired to restrict the damage to the area target to no more than ten percent (10%). What is the required aimpoint offset distance?

CEP = 1300 feet

WR = 6400 feet

$$\sigma_d = 40\%$$
 of WR

R95 = 1 n.mi.

PD \leq 0.10

CEP_a = $\left[1300^2 + 8542294(1^2)\right]^{1/2} = 3200$ feet

WR/CEP_a = 6400/3200 = 2.0

We must now interpolate in the table on page 46 to find the value of D/WR which will give PD = 0.10.

PD	.1120 _P 1	.1000 _{PA}	.0991 _{P2}
D/WR	1.55 _{D1}	?? D _A	1.60 D ₂

$$\begin{split} &D_{\text{A}} = D_{1} + (D_{2} - D_{1}) \left[(P_{\text{A}} - P_{1})/(P_{2} - P_{1}) \right] \\ &= 1.55 + .05 \left[(.10 - .1120)/(.0991 - .1120) \right] \\ &= 1.5965 \\ &D = D_{\text{A}} * \text{WR} = 1.5965 * 6400 = 10218 \text{ feet} \end{split}$$

3.4 LIMITS OF TABULAR EVALUATIONS

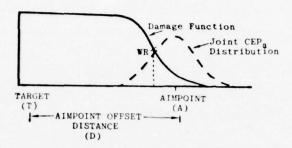
As mentioned in Section 3.2.1, the upper bounds on the table entries for ${\rm WR/CEP}_a$ and D/WR were chosen to show PD approaching definite limits as ${\rm WR}$, ${\rm CEP}_a$, and D increase/decrease without limit. In particular, the limit of PD as ${\rm WR/CEP}_a$ goes to infinity is the distance damage function and the limit of PD as D/WR goes to infinity is zero. A geometrical explanation of these limits is given below.

3.4.1 Limit of PD Along Horizontal Axis

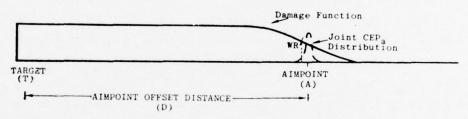
Consider the variation in PD as WR/CEP $_{\rm a}$ increases while D/WR remains constant. Assume CEP $_{\rm a}$ is a constant, so only WR is increasing as WR/CEP $_{\rm a}$ increases. Since D/WR maintains a constant value, D is also increasing as WR increases. Since D and WR are both increasing while CEP $_{\rm a}$ remains constant, eventually the distance damage function dominates the circular normal distribution, as illustrated in Figure 5A,B. Notice that the distance damage function decreases more gradually for a larger WR. This causes the circular normal distribution to be centered over a smaller and smaller portion of the damage curve. Consequently, PD goes to $P_{\rm d}$ as WR/CEP $_{\rm a}$ increases and D/WR remains constant. This effect is evident in the tabular results.

3.4.2 Limit of PD Along Vertical Axis

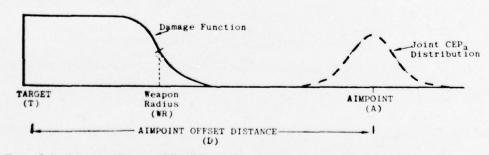
Consider the limit of PD as the offset distance D increases while WR/CEP $_{\rm a}$ remain constant. Since WR remains constant, D/WR increases as the offset distance increases. Eventually, the aimpoint A becomes so far offset from the target that the weapon does not interact with the target as shown in Figure 5C. In other words, the probability of damage to the target is 0; that is, PD goes to 0 as D/WR increases while WR/CEP $_{\rm a}$ remains constant. Graphically, as D increases the distributed values become separated so the probability of damage to the target decreases and becomes 0.



A. Initial Conditions



B. Limit as WR, D→∞; D/WR Constant



C. Limit as $D+\infty$; WR, CEP a Constant

Figure 5. Limits of Tabular Evaluations

APPENDIX

TABLES OF OFFSET CIRCLE PROBABILITIES

<u>Table</u>								Page
A1	Distance	Damage	Sigma	(σ_d)	=	10%	WR	 20
A2	Distance	Damage	Sigma	(σ_d)	=	20%	WR	 28
А3	Distance	Damage	Sigma	(σ_d)	=	30%	WR	 37
A4	Distance	Damage	Sigma	(σ_d)	=	40%	WR	 47
A5	Distance	Damage	Sigma	(σ_d)	=	50%	WR	 57

OFFSET DISTANCE/WEAPON RADIUS (D/WR)

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA(σ_d) = 10% WR

WEAPON RADIUS/CEPa (WR/CEPa)

1.90	4952	.4858	444	4588	4394	4168	3912	3641	. 3353	.3057	.2759	.2464	.2178	1905	1648	1411		6611.	1001	. 9829	6290		.0440	. 0273	1910	0001	0000	2000	0700	. 9912	. 0006	. 9992	1000	. 0000	0000	. 0000	. 9999	. 0000	. 0000	0000	9999	0000	0000	0000	9999	0000	0000
96.9	.4242	4190	4104	3986	3839	.3667	3473	.3262	.3037	2864	. 2567	.2329	2095	1868	1651	1446		6621	9801	. 0350	2220		.0539	. 9369	0560	0143	2000	0000	6400	0027	. 6614	2000	. 6663	. 0000	0000	. 0000	9999	. 0000	. 0000	9999	9999	9999	0000	0000	9999	0000	9999
9.80	.3557	.3508	3447	. 3363	. 3259	.3136	. 5996	. 2842	.2677	. 2504	. 2325	.2143	1962	. 1783	1609	1441	1001	1071	. 1131	1660	. 0862		. 9637	. 0457	0318	0012	- 21-0	0000	6000	0000	. 0033	6100.	1100.	. 0002	0000	0000	. 6666	0000	0000	0000	0000	0000	0000	0000	0000	00000	.0000
92.9	. 2855	. 2831	. 2791	. 2736	. 2667	. 2585	. 2491	. 2387	. 2275	.2155	. 2030	1961	1221	.1639	1509	1381	1001		.1137	. 1023	. 0915		. 0718	. 0551	0413	0300	9100	0110	1010	. 0103	. 9968	. 0044	. 0028	. 0008	0000	7000	. 0000	. 0000	0000	. 0000	0000	0000	0000	0000	9999	. 0000	.0000
9.69	2198	.2179	.2156	.2123	. 2081	. 2032	. 1975	1161.	. 1841	9921.	. 1687	. 1604	. 1518	. 1431	1343	1955	1.67	1001	1991	9669	. 6915		0920	. 0621	. 6498	0393	0304	6991	100	2010	. 0120	1600	.0064	. 0025	0000	. 0000	. 0003	. 000	. 0000	. 0000	0000	0000	0000	0000	0000	9000	.0000
9.55	1881	. 1870	. 1853	1828	8621	1921.	6121	1291	. 1618	. 1562	. 1501	. 1438	. 1372	1394	1235	1165	1000	2000	1020	. 6956	. 9888		.0758	.0638	. 052B	0431	0346	4200		. 0213	6910	. 0124	. 6692	. 0041	1100	. 000	. 0006	. 0002	. 0001	. 0000	0000	0000	0000	0000	0000	9900	.0000
0.50	. 1586	. 1576	. 1563	. 1546	. 1524	1498	. 1468	. 1433	. 1395	. 1354	. 1310	. 1263	1214	.1163	11111	1058	1004	0000	9669	. 6895	. 0842		2820	. 0637	. 0543	045R	0381	6313		1070	. 0203	. 6166	. 0125	. 0064	9699	00000	. 0013	. 00005	.0005	. 0001	0000	0000	0000	0000	0000	9999	. 0000
9.45	. 1306	1299	1291	1279	1264	1246	. 1225	1501	. 1175	. 1146	. 1115	. 1982	. 1948	11011	. 0974	6935	9806	9000	9000	9816	6229		. 0695	.0616	. 0541	0469	0403	6343	0000	0000	0470	. 0198	. 0162	. 6693	9999	1000	. 0020	. 0012	. 0005	. 0002	.0001	0000	9999	0000	0000	9999	.0000
9.40	. 1047	. 1643	. 1038	. 1030	1929	. 1009	. 6995	. 6986	. 0962	, 0943	. 0923	1060	. 9878	. 0853	. 9828	9801	9774	0746	04.00	9179	. 9689		.0631	. 0573	. 6516	0461	0408	0320	0000	100	9200	. 0231	9619	.0126	9200		. 0044	. 0024	.0012	9999	.0003	000	000	0000	9999	aaaa.	.0000
0.35	. 0813	.0810	2080	. 0802	9620	. 9789	. 0781	. 0772	1920.	0749	. 0737	. 0723	8020	. 0693	. 8677	0660	0643	0000	0700.	. 9606	. 0587		. 0548	. 0209	. 0469	. 0430	0301	6354	1000	0000	1070	1629	. 0221	. 0127	0107	0200	0000	. 0044	. 0026	.0015	.0008	9004	0000	1000	0001	1000'	. 0000
9.30	. 9694	.0603	. 0601	8620	0600	1600.	. 9586	. 0581	. 0575	. 0269	. 0561	. 0554	. 0545	. 0537	. 8527	. 0518	9597	0407	1010	. 0480	. 6474		. 0451	. 0427	.0402	. 9376	0351	6395	1000	1000	0170	. 6233	. 6236	. 0178	6133	2000	2600.	6900	. 0047	.0031	. 6626	. 9913	9998	9000	0000	0000	. 0000
0.25	. 0424	. 6423	. 0422	. 6421	61.00	1140.	. 6415	. 04 12	. 0409	. 8486	. 0402	. 6369	. 6394	. 6396	. 6305	. 035.0	6375	0360	. 000	1000	. 0328	1	. 0345	. 0332	. 0318	. 0304	0289	6229	0360	2070	2000	0530	6779	. 6186	9147	0110	0110	2600	. 9971	. 0053	. 6639	. 0028	0000	9014	6000	caaa.	. 0000
0.20	. 0273	. 0273	. 0273	. 0272	1050	1 120.	9279	6950	. 0267	. 0266	. 0264	. 0263	. 0261	. 0259	. 6257	. 0255	0253	9550	0000	0470	. 0242		. 0239	. 0233	. 0227	. 0221	9214	9207	0010	0100	1010	1010	9719.	.0157	0138	0010	0710	. 9192	. 9886	.0072	. 0029	.0048	9038	9930	0023		. 0000
9.15	.0155	.0155	4510	4010	4010	+010	4010	. 6193	. 6153	.0152	. 0152	. 6151	.0151	. 6150	.0149	. 0149	0.148	0147	91.0	0410	. 0145		.0144	.0142	.0139	.0137	0135	0132	0010	4107		47.0	. 0121	.0113	6165	0002	1600	6800	. 0080	. 0072	. 9965	. 0057	. 0051	9044	6038	nean.	9600
9.10	6900	6900	6900	6000	9969	. 0000	6999	. 0000	6900	6900	. 9968	. 0068	. 9968	. 0068	.0068	. 9968	0068	0068	0000	1000	. 0067	1	2900	9966	9966	. 0065	. 9965	. 9964	9964	000	0000	0000	7000	0900	9658	9665	0000	- 600 ·	. 0052	. 0049	2400	. 6644	. 6642	9639	9037		. 0000
6.62	21 00 .	2100	2100	100	2100	1.00	2100	100.	7100	 2100.	2100	2100	2100.	2100	2106	2100	2100	6617	0012	100	2100.		. 661			-		2188			7.5	-	-	20	2100	3016	9100	9199	9199	. 6616	9100	.0015	. 6615	9915	9015		0000
	9.99	-				2.				1.00	1.10	1.20	1.30	1.49	1.50	1.60	1.70	1 80	90.1	00.0	2.90		2.20		-		٠.								5.00	5 50				٠.		-		9.00	9.50		INFINITY

A1 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 10% WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.96	2.00	2.10	2.20	2.30	2.40	2.50	2.69
	.5616	.6241	.6816	.7336	2622	.8199	.8544	.8836	9886	.9280	. 9442	.9572	.9675	.9755	.9817	.9865
	.5689	.6232	.6896	. 7324	.7784	8186	.8531	. 8823	9996	.9267	.9430	.9561	.9665	.9747	9810	.9859
	. 5587	. 6205	6775	.7289	.7746	.8146	.8490	.8782	. 9027	. 9229	. 9395	.9529	.9636	.9721	2826	.9839
	.5550	1919	.6723	.7231	.7684	.8080	.8422	.8715	1968	.9166	.9336	4246	.9586	9296	.9748	.9805
	.5498	6609	. 6651	.7151	9652	.7988	. 8328	.8620	.8868	2206	. 9251	. 9395	. 9514	1196.	0696	.9754
	5433	.6020	6229	.7048	7485	0282	. 8207	8498	.8747	.8960	.9140	. 9291	.9418	.9523	.9611	.9684
	5354	5924	6440	6924	7350	.7728	. 8059	.8348	.8599	.8815	1006	.9159	. 9295	.9409	.9507	.9589
	5262	5813	6320	6780	7193	7561	7886	.8172	8422	.8641	.8832	8668	.9142	.9266	.9374	.9467
9.40	5157	5688	6174	9199	7014	0282	7897	. 7968	. 8217	.8438	.8633	.8805	.8956	9696	.9208	.9311
6.42	.5041	. 5548	.6013	.6434	.6815	71157	. 7464	.7738	. 7984	.8204	.8402	.8248	.8737	.8878	. 9995	6116
9.59	.4915	.5396	.5836	.6235	2629	.6923	7217	.7483	.7723	1462.	.8138	.8317	.8480	.8628	.8762	. 8885
6.55	4778	.5232	.5645	.6021	.6361	6999	6646	.7203	.7435	.7648	. 7842	.8021	.8186	.8337	.8427	.8695
-	.4632	.5057	. 5443	.5793	.6119	. 6398	.6661	1069	.7122	. 7326	. 7515	0692	. 7853	. 8005	.8146	8278
-	.4478	. 4873	.5230	. 5553	.5845	.6111	. 6354	. 6578	.6786	8269	.7158	. 7326	. 7484	. 7632	2222	. 2963
02.0	.4318	.4681	.5008	. 5302	. 5568	. 5811	. 6033	. 6238	.6459	2099	4229	.6931	. 7080	. 7221	. 7355	7482
	.4151	. 4482	. 4778	.5043	. 5282	. 5499	.5698	. 5882	. 6054	. 6215	. 6366	. 6269	. 6646	6222	6889	. 7016
100	93626	. 4278	. 4543	.4778	.4989	5126	. 5354	. 5515	. 5665	. 5806	. 5939	. 6965	.6185	.6566	6400	.6514
97	.3804	.4070	. 4303	. 4508	.4690	4854	.5003	.5140	. 5267	.5386	.5498	.5604	.5704	. 5801	.5893	.5981
	3626	3860	4061	.4236	4389	.4526	.4648	.4760	. 4863	.4958	.5048	.5132	.5211	. 5287	. 5359	.5428
	3446	3648	3819	3964	4088	4197	. 4293	.4380	4458	.4529	.4595	.4656	. 4713	. 4766	.4817	.4864
1.00	3266	3437	3577	.3693	9628	3872	.3942	. 4003	.4056	4104	4146	4184	.4218	. 4249	. 4277	.4303
1.05	.3085	.3226	.3337	.3425	.3495	.3551	3597	.3633	.3663	3687	.3706	.3721	3733	.3743	.3749	.3754
1.10	.2986	.3018	.3102	.3163	.3207	.3239	.3261	.3274	.3281	.3283	.3281	.3276	.3267	.3256	.3243	.3228
1.15	.2730	.2814	. 2871	. 2908	.2928	. 2937	. 2937	. 2929	. 2916	.2898	.2877	. 2852	. 2826	2622.	. 2767	. 2735
1.20	.2556	.2614	.2647	.2660	.2659	. 2647	. 2627	. 2601	.2570	.2534	.2497	.2456	.2414	. 2371	. 2327	. 2282
1.25	.2386	.2420	.2430	.2423	.2402	.2372	. 2334	. 2292	. 2245	.2196	2144	. 2091	.2037	. 1983	. 1929	1874
1.30	.2220	. 2232	. 2222	.2196	.2158	.2112	.2060	. 2003	1944	. 1884	. 1822	. 1760	1697	. 1636	. 1575	. 1515
1.35	.2060	.2052	.2023	. 1980	. 1928	. 1868	. 1864	.1737	6991	. 1699	. 1531	.1463	. 1396	.1330	. 1266	. 1204
1.40	. 1965	. 1879	. 1834	1777	. 1712	. 1642	. 1569	. 1495	. 1420	. 1346	. 1273	. 1202	.1133	. 1066	. 1002	. 6941
1.45	.1756	1714	. 1656	. 1587	. 1513	. 1434	. 1355	. 1275	7611.	.:120	. 1046	6975	2060	. 0842	. 0781	. 6723
1.50	1614	.1558	. 1488	. 1419	. 1328	. 1244	. 1161	6201.	6660	. 0923	. 0820	1820	9120	. 0655	. 0598	. 0545
1.55	6241	. 1411	. 1332	. 1247	. 1160	. 1072	2860	. 0905	. 0826	. 0752	. 0683	. 06 18	. 0227	. 0202	. 0451	. 0404
1 60	1350	1973	1186	1697	1006	81.8	0833	0753	2290	2098	9542	0483	6428	6326	.0334	.0295
	1990	1144	1.050	9920	9868	0780	0690	0690	0540	0484	6495	6379	0394	0281	0244	. 6211
	2111	1004	0000	6835	9744	06590	0580	0200	6441	6385	6356	0283	0242	9506	0175	0148
1.80	8969	9811	6714	0622	0537	0460	0391	6329	9226	0230	1610	0157	6159	. 0105	. 9985	6900
	9730	0632	0539	0454	0378	0312	0255	0206	0166	.0132	. 0105	. 6683	. 0065	. 0050	. 0039	. 6636
	6250	6485	6366	6324	0259	. 0205	1910	. 6125	9699	. 6073	. 0055	9941	. 0031	. 0023	.0016	. 0012
	6453	9366	0500	9556	6113	. 6131	8600	.0073	9953	.0038	. 6627	6199	.0014	6000	2000	.0004
	0350	0271	9506	0154	6113	0082	0058	. 6641	.0028	6199	. 0013	6000	9000	.0004	. 0002	. 0002
	. 6266	. 6198	. 0144	. 6163	. 6672	. 6649	. 6633	. 0022	. 0014	6000	9000	. 9994	. 0002	. 0001	. 6661	. 0000
	. 6266	. 0142	6600	2900	.0044	. 6629	. 9918	. 6611	2000	. 9994	. 0003	. 0001	. 9991	0000	. 0000	.0000
INFINITY	0000	. 0000	.0000	. 0000	. 0000	. 9999	. 0000	. 6666	. 0000	. 0000	. 0000	. 0000	. 6666	. 0000	. 0000	. 0000

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}})$ = 10% WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

																				_	_																				_	
2.69	9999	9999	. 0000	. 0000	. 6666	. 6666	. 6666	. 0000	. 0000	. 0000	0000	. 0000	. 9990	. 9999	. 6666	. 6666	. 6666	. 9999	. 0000	. 0000	. 0000	. 6666	. 6666	. 0000	. 6666	. 6666	. 0000	. 0000	. 6666	9999	0000	0000	9999	. 6666	9999	3666	9999	. 0000	. 0000	. 0000	. 0000	. 0000
2.50	9999	9999	0000	. 9999	. 0000	. 9999	. 9999	. 9999	. 0000	. 6666	9999	0000	9999	. 0000	. 6666	. 0000	. 9999	. 6666	. 9999	. 0000	. 9999	0000	0000	0000	. 9999	0000	. 6666	0000	. 0000	9999	. 0000	0000	0000	0000	9999	0000	. 0000	. 0000	. 0000	. 0000	. 9999	0000
2.40	9998	0000	0000	. 6666	. 6666	. 0000	. 6666	. 6666	. 0000	. 6666	9999	0000	. 6666	. 9999	. 6666	. 0000	. 6666	. 6666	. 0000	. 0000	. 0000	. 0000	0000	. 6666	. 0000	. 0000	. 6666	. 0000	. 6666	9999	0000	0000	0000	9999	9999	9999	9999	. 0000	0000	0000	0000	. 0000
2.30	9999	0000	. 0000	. 6666	. 0000	0000	. 6666	. 9999	. 0000	. 0000	0000	0000	9999	. 6666	. 0000	0000	. 6666	. 6666	. 0000	. 6666	0000	. 0000	. 0000	. 6666	. 6666	0000	. 0000	. 0000	. 6666	9999	. 6666	0000	0000	. 0000	9999	9999	9999	9999	0000	. 9999	. 0000	0000
2.20	1000	9999	. 9999	. 6666	. 0000	. 6666	. 6666	. 0000	. 0000	. 0000	0000	0000	. 6666	. 6666	. 9999	. 6666	. 0000	. 0000	0000	. 9999	. 0000	0000	. 6666	. 9999	. 9999	0000	0000	. 6666	. 6666	9999	. 6666	0000	0000	. 0000	9999	9999	0000	. 0000	0000	. 0000	. 0000	. 0000
2.10	1000	0000	. 6666	. 6666	. 0000	. 6666	. 6666	. 6666	. 0000	. 9999	9999	. 0000	. 9999	. 6666	0000	. 0000	. 6666	.0000	. 6666	. 9999	. 0000	. 9999	. 6000	. 0000	. 0000	. 6666	. 6666	.0000	. 6666	0000	9999	0000	9999	. 6666	0000	9999	0000	. 0000	0000	. 0000	. 0000	0000
5.00	0000	1000	. 0000	. 6666	. 0000	. 6666	. 6666	. 0000	. 9999	. 0000	9999	9999	. 9999	. 0000	. 6666	. 0000	. 6666	. 6666	. 6666	. 9999	. 0000	0000	. 6666	. 6666	. 6666	. 0000	. 0000	. 0000	. 9999	9999	9999	0000	9999	. 0000	0000	0000	0000	. 9099	0000	0000	0000	0000
1.90	8000	. 000	. 6661	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	0000	. 9999	. 9999	. 6666	. 6666	. 0000	. 0000	. 6666	0000	. 0000	0000	. 0000	. 0000	0000	. 0000	. 0000	. 0000	. 0000	9999	9999	0000	0000	. 0000	9999	9999	9999	. 0000	9000	. 0000	. 0000	0000
1.80	9000	. 0003	. 6661	. 6661	. 0000	. 6666	. 0000	. 0000	. 6666	. 6666	. 9999	0000	. 6666	. 6666	. 6666	0000	. 0000	. 6666	. 0000	0000	.0000	. 6666	. 0000	. 6666	.0000	. 6666	. 6666	. 6666	. 0000	0000	0000	0000	0000	0000	0000	9999	6666	. 6666	0000	. 6666	0000	. 9999
1.70	9199	.0005	. 6662	. 6661	1000	. 0000	. 9999	. 0000	. 0000	0000	9999	. 0000	. 0000	. 0000	. 9999	. 6666	0000	. 0000	. 0000	. 9999	9999	0000	. 0000	. 0000	. 0000	0000	. 0000	. 0000	. 6666	9999	9999	0000	9999	0000	0000	0000	0000	. 0000	0000	0000	. 0000	. 0000
1.60	9100	6000	. 0005	. 0002	1000	. 6661	. 6666	. 6000	. 6666	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 9999	. 0000	. 0000	. 0000	. 9999	0000	.0000	. 6666	. 0000	0000	. 6666	. 0000	. 0000	. 0000	9999	. 0000	0000	0000	0000	9999	0000	9999	9999	. 0000	. 9999	. 9999	0000
1.50	7500	9199	6000	. 0005	. 6663	1000	1000	. 0000	. 0000	. 0000	. 0000	. 0000	. 6666	. 6666	0000	. 6666	. 6666	. 6666	. 6666	. 6666	. 0000	.0000	. 6666	. 0000	0000	. 6666	. 6666	. 0000	. 0000	9999	9999	0000	9999	0000	9999	9000	0000	. 9999	9000	. 0000	. 6666	. 0000
1.48	9842	. 9926	9100	6000	. 0005	. 6663	. 0002	1000	. 0000	9999	. 6666	. 0000	. 6666	. 0000	. 9999	. 6666	. 9999	. 0000	. 0000	9999	. 0000	0000	. 6666	0000	. 6666	. 0000	. 9999	. 0000	. 9999	9999	. 0000	0000	9999	0000	9999	9999	0000	. 0000	. 0000	. 0000	. 9999	0000
1.36	9998	0043	.0028	. 0018	. 6611	2000	.0004	. 6662	1000	1000	. 9999	9000	. 6666	. 0000	. 6666	. 6066	. 6666	.0000	9999	. 6666	0000	. 9999	9999	9999	. 6666	. 0000	. 0000	. 0000	9999	9999	. 6666	0000	9999	9999	9999	0000	9999	9999	. 0000	0000	. 0000	. 0000
1.28	9199	0200	. 9947	.0032	. 6621	. 0014	6000	. 0005	. 0003	. 0002	. 8981	. 6661	. 9999	. 9999	. 6666	. 6666	. 6666	. 9999	. 9999	. 6666	. 0000	9999	. 6666	. 6666	. 0000	. 0000	. 9999	. 9999	. 0000	9999	. 0000	0000	9999	9999	00000	0000	9900	9999	0000	. 0000	. 0000	. 0000
1.18	9148	.0108	2200	. 9955	.0038	. 0026	. 6618	. 0012	. 6668	. 0005	. 0003	. 0002	. 9991	1000	. 6666	0000	. 9999	. 9999	. 6666	9999	9999	.0000	. 9999	. 0000	. 9999	. 6666	. 0000	9999	0000	9999	. 0000	0000	9990	9999	9999	00000	0000	9999	9999	0000	0000	0000
			02.	7		7			1	4.				8.80		-	14	7	-	٠,			1	-		٠,					99				06.	ř	,	4	9			-
	C	C	101	CA	CI	3	3	3	3	60	60	(7)	3	0	3	4	4	4	4	4	4	4	4	4	4	10	10	10	0	77 K	010	t	0 1	7 1	OV	D V	0	0	0	0	φ.	6

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 10% WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

ci	2.60 2.	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	2.00	5.20	5.40	5.69
90		Boo	0900	9981	1000	9000	9998	6666	6666	6666	6666	6666	6666	6666	6666	6666
96		194	9960	0266	0666	6666	8666	6666	6666	6666	6666	6666.	6666	6666.	6666	6666
0		910	1500	9973	9886	. 9993	9666	8666	6666	6666	6666	6666	6666	6666	6666	6666
0		385	9933	6966	6266	9988	9994	9666	8666	6666	6666	6666	6666.	6666	6666	6666
		347	9000	9943	9966	9980	9983	. 9993	9666	8666	6666	6666	6666	6666	6666	6666
0	•	602	9865	9914	9945	6965	8266	2866	. 9992	6666	2666	8666	6666	6666	6666	6666
0		212	9807	9869	9912	.9942	1966	6266	.9983	6866	.9993	9666	2666	8666	6666	6666
96		21.5	9725	9804	.9862	.9903	.9933	.9953	8966	8266	. 9985	0666	.9993	2666	2666	8666
0		132	9613	9712	7876	.9844	. 9885	9166.	6866	.9956	8966	2266	.9984	8866	. 9992	4666
6.	6116	9311	.9464	.9584	6296.	.9754	. 9811	.9856	0686	2166.	2866.	. 9952	. 9964	6266	6266	. 9984
8		906	9266	9412	9528	.9623	6696	0926	6086	.9849	.9889	. 9905	. 9925	9940	.9953	. 9963
0 0		200	9179	0000	4454	9556	9640	6026	9765	.9810	.9847	7286	1966	.9920	.9936	.9948
	*	989	9078	4537	9370	9480	. 9573	6796	. 9712	.9764	2086	.9842	0286	.9894	.9913	.9929
d		223	8969	9135	9226	9395	. 9495	. 9579	. 9649	8026	. 9757	8626	. 9832	. 9860	. 9884	6066
à		646	8850	9023	1216	.9298	.9406	.9498	9226	.9642	8696	.9745	.9785	.9818	. 9847	.9870
8		915	8722	. 8901	.9056	9160	.9305	.9405	.9491	.9564	.9627	.9681	.9727	9926	6626	. 9828
0		374	.8584	.8768	.8929	6906	.9192	.9299	.9392	.9473	.9543	.9603	.9656	1026	.9740	4226
1		222	.8435	.8623	.8789	.8936	. 9065	6216.	. 9279	2986	.9444	. 9512	1226	.9622	2996	2026
2		063	8277	8468	.8638	.8789	.8924	.9044	.9151	.9245	.9329	.9403	6946	. 9527	6226	. 9624
2		894	8198	.8300	.8473	.8629	.8768	.8893	9006	2016.	2616	.9278	. 9320	9414	.9472	.9523
2	7482 .77	2122	.7929	.8122	.8296	.8454	2628.	.8726	. 8844	. 8950	.9046	. 9132	.9210	. 9281	. 9343	. 9402
2		131	.77.40	.7932	.8106	.8265	.8410	.8543	.8664	4228	. 8875	.8966	.9659	.9126	.9195	.9258
		21:15	7542	.7730	.7903	.8062	.8208	.8342	.8465	.8578	.8683	8778	.8866	.8947	.9021	6896
9		135	.7335	.7518	.7638	.7845	0662	.8124	.8248	.8363	.8469	.8568	.8659	. 8743	. 8821	.8893
9		226	2118	2296	.7461	7614	2522	. 7889	.8012	.8127	.8234	. 8334	.8427	. 8513	. 8594	. 8669
	6514 . 6.	67.11	.6894	. 7064	.7223	.7370	. 7509	.7638	.7758	. 7872	8262	. 8977	1218.	.8258	. 8339	.8416
9.		490	.6662	. 6823	4269.	.7115	. 7247	1282	.7487	2692	0022	8622.	0682	9262	. 8027	.8133
. 6		263	.6424	. 6574	6715	. 6847	.6972	6802	.7200	. 7304	. 7403	.7496	. 7585	.7668	747	. 7822
10		03.1	6219	.6318	.6448	6229	. 6685	+629	2689	.6995	7807	+212	. 7258	. 7337	. 7411	. 7483
10	*	262	.5930	. 6055	.6173	.6284	. 6389	.6488	. 6581	0299	.6229	. 6835	. 6911	. 6983	. 7052	.7118
10		222	.5676	.5788	. 5893	1669	. 6084	1219.	. 6254	. 6333	. 6408	6249	. 6546	. 6611	7,00	. 0.63
ıc.		316	.5420	. 5517	2095	.5692	.5771	. 5847	. 5918	. 5985	. 6049	6019	2919.	. 6222	. 6273	. 6325
4		974	.5162	.5243	.5318	.5389	.5454	.5516	.5574	.5629	.5681	.5730	2229	.5822	.5864	.5995
4		831	.4903	4968	.5028	.5083	.5134	.5182	. 5227	. 5269	.5308	. 5345	.5380	.5413	5444	. 5474
+		589	.4644	.4693	.4737	4777	.4814	. 4847	.4878	.4906	.4932	.4956	6264	.5000	.5020	. 5038
4		348	.4386	4419	.4448	.4473	4494	. 4513	.4530	4244	. 4557	. 4568	.4579	.4588	.4596	. 4693
4.		691	.4131	.4148	.4161	.4171	.4178	.4183	.4135	.4186	.4186	.4185	.4183	4180	4177	. 4173
. 3		874	.3880	.3881	.3879	.3874	.3867	.3858	.3847	. 3835	.3823	.3809	.3796	.3782	.3767	.3753
		643	.3633	.3620	.3693	.3584	.3563	.3541	.3518	.3494	. 3469	. 3445	3421	.3396	.3372	.3348
. 3	3435 .3	3416	.3392	.3364	.3334	.3302	.3268	.3234	.3199	.3164	.3130	.3095	.3061	3028	2995	2962
		195	2212	.3116	.3073	.3029	. 2984	. 2939	. 2894	. 2849	. 2805	1000	0272	0202.	2000	2000
. 3		626	.2929	. 2876	. 2821	.2766	. 2711	.2657	. 2603	.2550	.2498	.2448	. 2399	. 2351	. 2305	1977

A1 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (Gd) = 10% WR

(CEP_a)

WEAPON RADIUS/CEPa (WR.

OFFSET DISTANCE/WEAPON RADIUS (D/WR)

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 10% WR

A

WEAPON RADIUS/CEP_a (WR/CEP_a)

OFFSET DISTANCE/WEAPON RADIUS (D/WR)

A

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA ($\sigma_{\mathbf{d}}$) = 10% WR

0	2	~	2	0	4	0	8	0	4	6		CI	_	3	8	c	3	cı	_	_	0			0
13.5	109	. 082	.061	. 045	. 032	. 023	. 016	. 011	200.	. 004		. 003	. 602	. 001	000	.000	. 000	. 000	.000	. 000	. 000	. 000		. 0000
13.00	.1113	. 0846	. 9632	. 9464	. 0336	. 0239	1916.	. 0115	8200	. 0052		. 0035	. 0022	. 9914	6000	. 0006	. 6664	. 6662	. 6661	. 0001	. 6666	. 0000		. 0000
12.50	.1136	. 9867	. 0651	. 6486	. 0349	. 0249	. 6175	. 0121	. 6683	. 0056		. 6637	. 0024	. 0016	0100	9000	. 0004	. 0002	1 000	1000	. 0000	. 0000		. 0000
12.00	.1162	1689	. 0672	. 0498	. 0364	. 0261	. 6185	. 6129	. 0088	. 0060		. 6646	. 0026	2100.	. 9911	2000	. 0004	. 6663	. 0002	. 0001	. 0000	. 0000		. 0000
11.50	1611.	2160.	. 0695	. 0518	. 0380	. 0275	9610.	.0137	. 6695	.0064		. 9943	. 6629	6100	. 0012	. 0008	. 0005	. 0003	. 0002	. 6661	. 0000	. 0000		. 0000
11.00	. 1223	. 0947	. 0722	. 0541	. 0400	. 0291	. 6268	. 0147	. 0102	0200		. 0047	. 0032	. 0021	. 0013	6000	. 6665	. 6663	. 0002	1000	.0000	0000		. 0000
10.50	. 1258	. 0980	. 0752	. 0567	. 0422	. 0369	. 6223	.0158	. 0111	2200		. 0052	. 0035	.0023	. 0015	. 0010	9000	. 9994	. 0002	. 0002	. 0000	. 0000		. 0000
10.00	. 1298	. 1018	. 0786	. 0597	. 0447	. 6336	. 9240	. 0172	.0122	. 0085		. 0058	.0040	.0026	. 0017	. 0011	2000	. 0005	. 0003	. 0002	. 6000	. 0000		0000
9.50	. 1343	. 1969	. 9824	. 0632	. 0477	. 0355	. 0261	.0188	. 0134	. 0095		9900	. 0045	.0030	. 0020	. 0013	6000	9000	. 0004	.0002	. 6666	. 9999		. 0000
9.6	. 1393	1198	6980	. 0672	. 0512	. 0384	. 0285	. 0208	.0150	2010.		. 0075	. 0052	. 6635	. 0024	. 0016	. 0011	2000	. 6664	. 0003	. 9999	. 9999		. 0000
8.50	. 1450	. 1163	.0920	. 9718	. 0552	.0419	. 6314	. 0232	6910	.0122		. 0087	. 0061	. 0042	. 0029	6100	. 6613	6000	9000	.0004	. 0000	. 0000		. 0000
8.60	. 1513	. 1225	8260	1220	. 0660	. 0461	. 0349	. 0261	.0193	.0141		.0101	.0072	. 0051	. 0035	. 0024	9100	. 0011	2000	. 0005	0000	. 0000		.0000
2.50	. 1585	. 1295	. 1046	. 6834	. 0656	. 0510	. 6392	. 6297	. 0223	. 0165		. 0121	. 0087	. 0062	. 0044	. 6631	. 0021	. 9914	. 9919	2000	. 6661	. 9999		0000
2.00	. 1666	. 1376	1124	2060	. 6723	. 0570	.0444	. 0342	. 0261	9610.		.0146	2010	. 0078	. 0056	. 0040	.0028	. 0020	. 0013	6000	. 0001	. 0000		0000
6.50	1757	. 1468	. 1214	. 6992	. 6863	. 9642	. 0508	. 0398	. 9398	. 6236		6216	.0134	. 0100	.0073	. 6653	. 6638	. 0027	6100	. 0013	. 6602	. 6666		0000
9.99	. 1859	. 1573	. 1317	. 1093	2680	.0730	. 0587	. 0468	. 0369	.0289		. 0223	1210	.0130	2600	. 0072	. 0053	.0039	. 6628	.0020	. 0003	. 0000		. 0000
	1.14	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32		1.34	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.60	1.79		INFINITY
	6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 1.00 12.50 13.00 13.00 1.00 12.50 13.00 13.00 1.00 1.00 1.00 1.00 1.00 1	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 13.00 13.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 13.50 13.00 13.51 1513 1450 1393 1343 1298 1228 1223 1191 1162 1136 1113 1137 1253 1150 1255 1163 1163 1100 1018 0980 0947 0917 0891 0867 0846 1317 1214 1124 1646 0978 0920 0869 0869 0824 0756 0752 0752 0655 0672 0651 0653	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 13.00 13.50 13.00 13.50 13.00 13.50 13.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.00 11.50 12.00 12.00 12.50 13.00 13.00 11.50 12.00 12.50 13.00 13.00 11.52 11.53 11.50 12.50 13.00 13.00 11.52 11.53 11.54 11.55 11	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 13.00 13.50 13.00 11.50 12.00 12.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.00 13.50 13.50 13.00 13.50 13.50 13.00 13.50 13.50 13.00 13.50 13.50 13.50 13.00 13.50 13	6.56 7.66 7.56 8.90 8.50 9.50 10.00 10.50 11.50 11.50 12.50 13.50 13.60 10.00 10.50 11.50 12.50 12.50 13.50	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 11.50 11.00 11.50 12.00 12.50 13.00 13.00 13.50 13.50 13.50 11.00 11.50 12.00 12.50 13.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 13.51 1458 11557 1666 1585 1513 1450 1393 1343 1298 1258 1253 1191 1162 1136 1113 1113 1157 1666 1295 1295 1225 1163 1108 1660 1618 0950 0947 0947 0947 0947 0947 0947 0947 094	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.00 13.50 13.50 13.50 13.50 13.50 13.50 11.50 12.50 12.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 11.50 11.00 11.50 12.00 12.50 13.00 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 11.50 11.00 11.50 12.00 12.50 13.00 13.00 13.50 13.50 13.50 11.00 11.50 12.00 12.50 13.00 13.50 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.50 12.00 12.50 12.50 13.00 13	6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 11.50 11.00 11.50 12.00 12.50 13.00 13	6.00 6.50 7.00 7.50 8.00 9.00 9.50 10.00 11.50 11.50 12.00 12.50 13.00 1.859 1.757 1.666 1.585 1.513 1.450 1.393 1.343 1.258 1.123 1.191 1.162 1.135 1.113 1.873 1.466 1.876 1.295 1.253 1.163 1.168 1.066 1.069	6.00 6.50 7.00 7.50 8.00 9.00 9.50 10.50 11.50 11.50 12.00 12.50 13.43 129 125 11.60 11.50 12.00 12.50 13.43 129 125 11.13 11.14	6.00 6.50 7.00 7.50 8.00 9.00 9.50 10.50 11.50 12.00 12.50 13.90 1.859 1.757 1.666 1.585 1.513 1.450 1.393 1.343 1.298 1.056 1.150 1.150 1.150 1.150 1.113 1.166 1.865 1.666 1.865 1.666 1.865 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.113 1.164 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.069 1.113 1.069	6, 00 6, 50 7, 00 7, 50 8, 00 9, 50 10, 60 10, 60 11, 50 12, 50 12, 50 13, 33 1343 1248 1258 1253 1191 1162 1136 1113 1373 1466 1376 1295 1513 1450 1393 1343 1298 1223 1191 1162 1186 1867 695 6672 6687 6688 6688 6688 6688 6688

A

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_{d}) = 10% WR

4	8	6666	6666	6666.	6666	6666	8666	. 9995	9988	6266	. 9939	.9878	6226	2096	. 9359	.9013	.8559	2662	.7336	9629	.5807	. 5000	.4209	.3464	.2786	.2191	. 1686	. 1269	. 0935	. 0675	. 0478	. 0332	. 0227	.0152	0100	0000	0041	9600	9100	00100	9000	0000	.0002		.0000
	20.00	6666	6666	6666	8666	9666	0666	.9980	0966	4654	.9864	.9768	.9624	2116	. 9135	.8268	.8312	2922	7144	.6460	.5735	. 4995	. 4266	.3570	. 2929	. 2354	. 1854	. 1432	1084	. 0805	. 0587	.0450	. 6295	9204	0130	6663	1906	0040	0002	9100	9010	9000	. 0004		. 0000
	19.50	6666.	6666	6666	8666	2666.	9666	6266	. 9958	1666	6286	.9762	9196	.9408	. 9125	.8757	.8300	2222	.7135	.6453	.5731	4664	.4268	.3575	. 2935	. 2362	. 1862	1440	. 1092	. 9812	. 0593	. 0425	. 0299	. 0207	9141	9000	6900	0040	9600	9100	0100	9000	. 0004		0000
	19.00	6666.	6666.	6666.	8666	. 9995	6866	2266.	. 9955	2100	. 9854	. 9755	2096	2686	.9113	.8744	.8288	. 7745	.7126	.6446	.5727	4664	. 4270	.3580	. 2945	. 2370	. 1871	. 1448	. 1100	6180	6620	. 6430	. 0303	.0210	0143	9000	0064	0041	0002	9017	0010	9000	. 0004		. 0000
	18.50	6666	6666	6666	8666	.9995	8866	9266	.9953	4114	. 9849	.9748	.9598	.9386	.9100	.8731	.8274	.7733	9112.	.6439	.5723	.4993	. 4273	.3586	. 2950	. 2379	. 1880	. 1458	.1108	. 9827	. 0605	. 9435	. 0308	. 0214	9146	9998	0000	0040	2000	2100	1100	0000	0004		0000
	18.00	6666	6666.	6666	2666	4666.	2866	4266.	. 9951	9910	. 9843	.9740	. 9588	.9375	2806	2128	.8260	. 7720	.7105	.6431	.5719	.4992	. 4276	.3591	.2958	.2388	. 1890	1467	. 1118	. 6835	. 0613	.0441	. 6312	. 0217	0140	0010	9900	0043	8000	81.00	- 100	2000	0004		.0000
SEP _a)	17.50	6666	6666	6666	2666	6666	9866	.9972	9948	0000	.9837	.9732	. 9578	.9362	. 9072	.8701	. 8245	9022	. 7093	.6422	.5714	.4992	4279	3597	.2966	.2398	1961	. 1478	. 1128	. 0844	. 0620	.0448	. 0317	. 0221	0150	0100	9968	0045	0000	8100	0011	2000	. 0004		. 0000
a (WR/CEPa)	17.99	6666	6666.	6666.	2666.	.9993	. 9985	0266	9944	000	.9830	.9723	. 9566	.9348	2906	.8685	.8228	1692	. 7980	.6413	6029	.4991	.4282	.3604	.2975	.2409	. 1913	. 1490	.1138	. 0854	. 0629	. 0455	. 0323	.0226	0155	2010	0200	9046	0030	0000	0100	0002	.0002		. 0000
RADIUS/CEP _a	16.50	6666	6666.	6666	9666	. 9992	. 9984	8966	9941	9895	. 9823	.9713	. 9553	. 9333	.9040	.8667	.8211	4292.	2902	.6403	.5704	.4990	. 4285	.3611	.2985	.2420	. 1925	. 1502	.1150	. 9864	. 0638	. 0462	. 6329	. 6231	01150	8010	0079	0047	0031	0000	0100	8000	0000		0000
RADI	16.00	6666	6666	6666	9666	1666.	. 9982	.9965	2866	9889	.9814	.9702	. 9539	.9316	.9021	.8647	1618	2692	. 7052	.6393	.5698	.4989	. 4289	.3618	.2995	.2433	. 1938	. 1515	. 1163	9280	. 0648	. 0471	. 0336	. 0236	0163	11.10	9074	000	0000	0000	0100	8000	. 0000		. 0000
NEAPON	15.50	6666	6666	6666	6666	0666	.9980	.9963	.9932	9883	. 9805	6896	.9524	.9298	1006	.8626	.8171	.7638	.7036	.6381	.5691	. 4987	.4292	.3626	3007	. 2446	. 1953	. 1530	. 1177	. 6888	. 0659	.0480	. 0344	. 0242	0.168	41.16	2200	0021	2000	1000	0013	0000	0000		. 0000
5	15.66	6666	6666	6666	6666.	6866	8266	6266	. 9927	9875	6626	9296	.9508	6256	6268	.8603	.8148	.7617	6102	. 6369	.5684	. 4986	.4296	.3635	.3019	.2461	. 1969	. 1546	. 1192	. 0902	1290	.0490	. 0352	.0249	6173	81.18	9999	0053	6034	0000	4190	0000	9000		0000
	14.50	6666	6666	6666	4666	2866	9266	.9955	.9921	9866	.9783	1996	. 9489	.9257	.8956	.8578	.8124	26622	1002	. 6355	.5676	. 4984	.4300	.3644	.3032	. 2476	. 1986	. 1563	. 1208	2160	.0684	. 0501	. 6361	9526	0178	0010	0083	9655	9699	6600	2100	0000	9000	00000	. 0000
	14.66	6666	6666	6666	6666	9866.	8266	.9951	9914	9857	9226	.9644	6946	. 9233	.8930	. 8551	2608	1222	.6981	.6341	.5668	. 4983	. 4305	.3654	.3046	.2493	2004	. 1582	. 1226	4060.	6690	. 0514	. 6371	. 0264	9185	6107	9898	0000	9699	2000	9100	0000	90'0		0000
	13.50	6666	6666	6666	1666	. 9983	6966	.9945	9066	9846	9526	.9626	9456	.9561	.8901	. 8522	. 8069	. 7545	. 6939	.6325	. 5659	.4980	.4310	.3665	.3061	.2512	.2024	. 1603	. 1246	. 0952	6119	. 0528	. 0383	6273	0010	6010	9099	1900	9940	9000	2000	1100	2000		. 9909
	13.66	6666	6666	6666.	9666	.9981	6966	.9939	2686	9834	. 9739	.9603	. 9421	6216	. 8870	.8490	. 6037	9152	. 6935	.6307	. 5649	. 4978	.4314	.3676	.3078	.2532	.2047	. 1625	. 1268	. 0972	. 6733	. 0543	. 6396	9284	9900	0130	6000	9064	00043	0000	8199	0100	2000		0000
		00.0	0.50	0.00	6.63	29.0	69.0	0.71	0.73	0.75	0.77	62.0	0.81	6.83	6.82	0.87	68.6	16.9	6.93	6.92	26.0	66.0	1.01	1.03	1.03	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1 25	10	1 20	3	1 33	1 35	1 37	1 30	4.		THEINITY

DISTANCE DAMAGE SIGMA $(\sigma_d) = 20\% \text{ WR}$ OFFSET CIRCLE PROBABILITIES

RADIUS/CEP_a

WEAPON

OFFSET DISTANCE/WEAPON RADIUS (D/WR)

		2.10 2.20 2.30 2.40 2.50	9182 .9333 .9458 .9562 .9647	. 9326 . 9446 . 9556 .	9218 9349 9459	9127 9262 9376	9008 9147 9267	. 8860 . 9004 . 9129	. 8683 . 8831 . 8961	.8475 .8626 .8761 .	. 8236 . 8388 . 8526 .	. 7966 . 8118 . 8257	7666 7816 7953	7337 . 7482 . 7615	. 6982 . 7118 . 7245	. 6663 .6729 .6846 .	. 6203 . 6316 . 6422	. 5788 . 5886 . 5978	4866 4000 4000 5050 5107	. 4497 . 4542 . 4584	. 4069 . 4097 . 4121	.3652 .3662 .3670 .	.3249 .3244 .3237 .	. 2866 . 2847 . 2827	9171 9131 9691	. 1864 . 1817 . 1771	. 1585 . 1534 . 1484 .	. 1336 . 1282 . 1239	. 1115 . 1661 . 1669	0919 . 0522 . 0505 . 0619 . 0615	9613 9566 9503	0449 0450 0411	6434 . 6392 . 6354 . 6326 . 6296	. 6241 . 6213 . 6188	. 0143 . 0123 . 0106	. 0082 . 0068 . 0057	. 0045 . 0037 . 0030	0024 0019 0015
,	WR/CEPa)	1.90 2.00	. 99995								•					•	•		4703 4785		•	•	•	•				•	•	. 8980 . 1860			0535 .0482				•	
	WEAPON RADIUS/CEP _a (WR/CEP _a)	1.80	. 8535	. 8521	8411	8315	. 8192	. 8042	. 7865	. 4992.	. 7438	. 7189	6918	. 6627	. 6319	. 2666	. 5661	. 5317	4613	. 4261	. 3912	. 3570	. 3238	. 2918	2324	. 2053	. 1892	. 1571	. 1360	. 8660	0845	. 0711	. 0594	. 9406	. 0269	. 6173	. 9198	9900
	NEAPON RA	1.69 1.79	. 7899 . 8240	*											•				4402 4514			17.				: :			•	1141 . 1968			.0730 .0659					
	>	1.40 1.50	7966 .7598	•															4389 . 4559				•							1292 . 1216			9886 . 9896					
		0 1.30	. 1259. 7				-	•	•		•					•	•	•	3967		•;						•	•	٠	4 . 1366 .	1224	1000	1260	. 6758	. 0581	. 0438	. 0325	4537
		1.10 1.20	.5436 .6027	•														*	3550 3775					•						. 1492 . 1434			.1137 .1056				•	
				6.63											٠,	٠.			00.00		-	1.05	91.1	1.15	1.25	1.30	1.35	1.40	64.	1.55			92.1					

.8500 .8197 .7476 .7476 .7466 .6616 .6616 .5658 .5658 2.69

A2

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 20\%$ WR

OFFSET DISTANCE/WEAPON RADIUS (D/WR)

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{f d}) = 20\% \, {\rm WR}$

WEAPON RADIUS/CEPa (WR/CEPa)

		1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	5.00	2.10	2.20	2.30	2.40	2.20	5.60
		. 0165	2110	. 0082	. 0057	. 0039	. 9927	. 0018	. 0012	6000	9000	. 0004	. 0003	. 0002	. 0002	1000	1000
9	0	.0122	. 0083	. 6656	. 9937	. 9924	. 0016	. 9919	2000	. 9994	. 0003	. 0002	1000	. 6661	. 0001	. 6661	. 0000
	62	6899	. 9958	2800	. 0023	. 0015	6000	9000	. 0004	. 6662	. 6661	. 6661	. 0001	. 6000	. 6666	. 0000	. 6666
	9	. 0065	. 6646	. 0024	. 0015	6000	. 0005	. 6663	. 6662	1 999	. 6661	. 0000	. 9999	. 0000	. 0000	. 9999	. 0000
6.5		. 0046	. 0027	9100.	6000	. 0000	. 0003	. 0002	1000	. 9991	. 0000	. 6666	. 9999	. 0000	. 6666	. 0000	. 0000
	00	. 0032	. 0018	. 0010	. 9993	. 6663	. 0002	. 9991	. 0000	. 0000	. 0000	. 0000	. 0000	. 9999	. 8888	. 9999	. 0000
3.		. 0022	. 0012	9000	. 6663	. 6662	1000	. 0000	. 0000	. 9999	. 9999	. 6666	. 6666	. 0000	. 9999	. 9999	. 0000
	0	. 9915	. 8000	. 6004	. 0002	1000	. 9999	. 9999	. 0000	. 9999	. 9999	. 0000	. 9999	. 0000	. 6666	. 0000	. 0000
3.3		. 9918	. 9995	. 6662	. 0001	. 0000	. 0000	. 0000	. 6666	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 9999	. 9999
4.	9	2000	. 0003	1000	. 0001	. 0000	0000	. 0000	. 0000	. 0000	. 0000	. 0000	0000	. 9999	. 6666	. 6666	. 6666
		. 6664	. 0002	1000	. 9999	. 0000	. 0000	. 9999	. 0000	.0000	. 0000	. 0000	. 8888	. 9999	. 9999	. 0000	9999
3.6		. 6663	1000	. 0000	. 6666	. 0000	. 0000	. 0000	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 6666	. 0000	. 0000
	0.	. 0002	1000	. 9999	. 0000	0000	. 0000	. 9999	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	.0000	. 0000
3 . 6	86	1000	. 9999	. 9999	. 9999	. 9999	. 9999	. 0000	. 0000	. 0000	. 0000	. 6666	. 0000	. 9999	. 6666	. 9999	. 0000
6.8	9	. 0001	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 9999	. 0000	. 9999	. 0000
		9999	. 9999	9999	. 9999	. 9999	9999	. 9999	. 9999	. 9999	. 0000	. 0000	. 6666	. 0000	. 6666	. 0000	. 0000
-	0	0000	. 9099	. 0000	. 0000	0000	. 0000	. 0000	. 9999	. 0000	. 9999	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000
		0000	. 0000	. 0000	. 9999	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 6666	. 9999	. 0000	. 0000	. 0000	. 0000
	0	0000	. 0000	. 6666	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 9999	. 9999	. 0000	. 9999	. 6666	. 9999	. 9999
4	0	. 9099	. 0000	. 0000	. 9999	. 0000	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 0000	. 6666	.0000	. 0000	. 6666
	0	. 0000	. 0000	. 0000	. 0000	. 0000	. 9999	. 0000	. 0000	. 0000	. 9999	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 20\%$ WR

RADIUS/CEP_a

WEAPON

A2

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA ($\sigma_{\mathbf{d}}$) = 20% WR

RADIUS/CEP_a (WR/CEP_a)

WEAPON

AZ OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (0_d) = 20% WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

	6666	6666	6666	6666	6666	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
	6666	6666	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	6666	0000	
9.10	6666	6666	6666	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
	0000	0000	0000	0000	0000	0000	0000	0000	6666	0000	0000	6666	6666	6666	6666	6666
	0000	0000			6666	6666	***	6666	6666	6666	6666	6666	6666	6666	6666	6666
	0000	1000	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666
	2666	2555	8666	5555	5566	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666
	9886	.9993	9666	2666	8666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666
	4266	. 9983	8866	. 9992	4666	9666	2666	8666	8666	6666	6666	6666	6666	6666	6666	6666
	9945	1966	. 9972	6266	.9984	.9988	1666	.9992	9994	9995	9666	2666	2666	8000	9998	0000
	9892	8166	2866	. 9950	0966	8966	6266	8266	1866	9984	9866	8866	6866	1666	. 9992	. 9992
•	986	9839	9869	9891	6000	6655	0033	0040	0040	9954	0000	0900	9900	0900	0000	000
	9748	4626	9829	9855	9876	9893	9000	2100	9600	0033	0030	9945	0040	0000	9500	0000
	9687	9738	8226	9810	9835	9855	0871	9884	9805	0000	0010	0100	2000	0000	0000	0000
	9613	1296	2126	9753	9782	9806	9895	9841	5500	9866	0876	0000	080	0000	0000	0000
•	9526	1626	9642	9683	2126	9744	0767	9786	9800	9816	9897	9837	9846	9854	0861	9986
	9456	2646	9553	9599	2896	9668	0694	91.20	0725	0751	0765	0777	0787	0707	2000	0000
	6366	9386	9448	9499	9541	9226	9605	9630	16651	9670	9686	0200	9719	0703	0230	0741
	2216	9259	9325	9380	9426	9465	9497	9535	95.49	0570	0500	0000	06.17	06.30	0.641	0230
	2006	9113	9184	9243	9292	9333	0360	0000	9405	9448	0468	0486	050	0500	14040	0000
6.63	8859	8948	9022	9084	9136	9180	9218	9251	0220	0303	9335	9344	1986	9226	0380	0401
	8673	8764	ARAG	8004	8058	0004	0000	0000	0010	0104			1000	0000	1000	10000
									. 7160	1016.		, , , ,	. 414.	. 7211	. 4250	. 7230
7	8468	8560	.8638	.8703	.8758	.8805	.8845	.8881	.8911	8938	.8962	8983	1006	9018	9033	9046
-	8245	8337	8414	.8479	.8534	.8582	8622	8658	8689	8716	8740	8761	8780	8797	8819	8836
-	8004	8094	8170	.8233	8288	.8335	8375	8410	8441	8468	8492	85 13	8531	8548	8563	8577
	2542	7833	29862	7967	8020	8965	8104	8138	8168	8194	8917	8037	8556	8979	8086	8300
	7473	7555	.7624	.7682	.7732	\$222	7811	7843	. 7871	7896	2918	7937	7954	7070	7084	7006
	7 185	7261	7325	7378	7424	7464	749R	7528	7554	7576	7506	76.14	7630	7644	7657	7660
•	6885	6953	1102	2060	2101	7136	7167	7194	75017	7037	7055	7971	7295	1000	7900	7210
•	6574	6634	6685	6727	6764	6795	6891	6844	6864	6883	6897	1109	6009	6034	6044	6050
	6254	6306	6349	6385	6415	6441	6464	6483	6400	6514	6507	6559	6540	1010	1444	. 040
9.00	5929	1265	6996	6035	60209	6686	6007	6113	9619	6137	6147	451.9	6169		2000	6100
	. 6655	2632	.5658	.5680	.5698	4129	.5726	.5737	. 5747	. 5755	. 5762	. 5768	.5774	. 5778	. 5783	. 5786
9.94	5268	5291	.5309	.5324	.5336	.5346	. 5354	.5361	.5367	.5371	.5376	.5379	.5382	5385	5388	5390
	4938	4951	1961	.4969	4975	4980	4983	.4986	4988	4990	4992	4993	4004	4995	4004	4996
	4611	4615	.4618	.4618	4619	4618	4618	4617	4616	4615	4614	4613	4619	4611	46.10	4600
	4290	4285	4280	4275	4270	4265	4960	4956	4950	4048	4045	4040	4000	4007	4004	4000
	9268	3963	3951	3940	3936	3421	3013	3006	3800	2803	3888	2000	2870	1000	1000	2000
	1298	3651	2632	2617	26.03	2500	05.00	0920	0000	0000	0000	00000	2000	0000	1000	00000
	7000	0000	0000	1000	00000	0000	6000	.000	9900	3000	0400	. 3339	. 3333	3358	3524	. 3519
	2000	9999	2000	9996	0000	0270	3200	3546	. 3237	3226	6178	. 3211	. 3205	3198	.3193	.3188
	1000	2000	04400	1100	9667	2367	2662	5467	. 2930	. 2920	. 29.10	. 2962	. 2894	. 2887	. 2881	. 2876
	6707	5000	200													
	0 10				200	0007	1 207 .	. 2000	1407	1502	97.97	. 2611	. 2663	. 2596	. 2589	. 2583

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OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 20\% \, \mathrm{WR}$

	13.50	9659	1828	2191	.1426	. 1252	2601	2260	. 0833	. 0723	.0626	. 0540	. 0465	. 0399	. 0342	. 0292	. 0250	. 0212	.0181	.0150	9966	. 0027	1100	9004	0005	1000	. 0000
	13.66	2966	. 1835	. 1623	. 1432	. 1258	. 1102	. 0962	. 6838	. 0727	. 0630	. 0544	. 0468	. 8462	. 0345	. 0295	. 0252	. 0214	. 9182	. 9154	9966	. 0027	. 9611	9000	. 0002	. 9991	. 0000
	12.50	2073	1842	. 1630	. 1438	. 1265	. 1108	.0968	. 9843	. 0732	. 0634	. 0548	. 0472	. 9496	. 9348	. 0297	. 0254	. 0216	. 9184	.0156	2900	. 0028	. 9911	9004	. 0002	. 9991	. 0000
	12.00	2080	1849	. 1638	. 1446	. 1272	. 11115	4260	. 0849	. 0738	. 0639	. 0552	. 0476	. 6469	. 0351	. 0300	. 0257	. 6219	. 9186	. 6158	. 0068	. 0028	1100	9004	. 0002	. 0001	. 0000
	11.50	2089	. 1858	1647	. 1454	. 1280	. 1123	. 6982	. 9856	. 0744	. 0645	. 0558	. 0481	. 9414	. 0355	. 9364	9260	. 6221	. 0188	.0169	6900	. 0029	. 0012	0000	. 6662	1000	. 0000
	11.00	2000	1868	. 1657	. 1464	. 1289	.1131	0660	. 0864	. 0751	.0651	. 0563	. 0486	. 6418	. 0359	. 0308	. 0263	. 0224	1616.	.0162	0200	. 0029	.0012	9995	. 0002	1000	. 0000
(CEP _a)	19.50	2110	6281	. 1668	. 1475	. 1299	1141	6660	. 9872	. 0759	. 0659	.0570	. 6492	. 0424	. 0364	. 0312	. 0267	. 0228	. 0194	. 0165	1200	. 0030	. 0012	0000	. 0002	. 6661	. 0000
Pa (WR	10.00	.2123	. 1892	. 1680	. 1487	. 1311	.1153	. 1010	. 6882	6920	2990	. 0578	. 0499	.0430	. 0320	. 9317	. 0272	. 0232	.0198	.0168	. 0073	. 0030	. 0012	6000	. 0002	. 9991	. 0000
INS/CE	9.30	2138	2061	. 1695	. 1501	. 1325	. 1166	. 1623	. 6894	6220	2290	. 0587	. 0508	.6438	2280	. 6323	. 0277	. 0237	. 6262	.0172	6002	. 0031	. 0013	6000	. 0002	. 6661	. 0000
N RAD	9.00	2154	1924	. 1712	. 1518	. 1341	.1181	. 1037	8060	. 0792	. 0689	.0598	. 0518	. 0447	. 0385	. 0331	. 0283	. 0242	. 0207	9210	2200	. 0032	. 0013	9995	. 0002	. 6661	. 0000
WEAPON RADIUS/CEPa (WR)	8.50	.2173	. 1943	. 1731	. 1537	. 1360	6611.	. 1054	. 0924	. 0807	. 0203	.0611	. 0529	.0457	. 0394	. 0339	. 0291	. 0249	. 0213	.0181	. 0080	. 0034	. 0014	9995	. 9992	. 9991	0000
	8.00	2196	1966	1754	. 1559	. 1382	. 1220	4201	. 0942	. 6825	6120	.0626	. 0543	0410	.0406	. 0349	. 0300	. 0257	. 0220	. 0188	. 0083	. 0035	.0014	9000	. 6662	. 6661	. 0000
	2.50	. 2222	. 1992	. 1781	. 1586	1407	. 1245	. 1698	. 0965	. 6846	. 0739	. 9644	. 0560	. 0485	. 0419	. 0362	. 0311	. 0267	. 0229	9619	. 0087	2800.	. 0015	9000	. 6662	. 0001	. 9999
	90.7	.2252	.2024	. 1812	2191.	. 1438	. 1275	.1126	. 6992	. 6871	. 0763	9990	. 6580	. 0504	. 0436	2280	. 0325	. 6286	. 0240	. 0205	. 8692	. 6039	9199	2000	. 66.63	. 9991	0000
	6.30	.2288	. 2061	. 1859	. 1655	. 1475	.1311	. 1161	. 1025	. 6963	. 0292	.0693	. 06.05	. 0527	. 0458	.0396	. 0342	. 0295	. 0254	. 0218	8699	. 6643	.0018	2000	.0003	1000	. 0000
	6.99	.2330	.2105	1895	0021	.1520	. 1355	. 1264	9901	1460	. 6859	.0728	2896	. 0556	0484	. 0451	. 0364	. 0315	. 0272	.0234	2010	. 9942	. 0020	8000	. 0003	. 0001	. 0000
		1. 14	1.16	1.18	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.60	1.70	1.86	1.90	2.00	2.10	8

A2 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 20\%$ WR

Pd	3	6666	4444	9028	6966	9937	10000	6666		. 9848	. 9848	.9848 .9776 .9682	.9848 .9776 .9682	.9848 .9776 .9682 .9561	.9848 .9776 .9682 .9561	. 9848 . 9776 . 9682 . 9410 . 9410	9848 9776 9682 9682 9410 9228	9848 9776 9682 9682 9410 9228 9012 8762	9848 9776 9776 9682 9228 9228 9612 8762 8762	9848 9776 9776 9682 9228 9612 8762 8762 8166	9848 9776 9776 9776 9410 9410 9612 8762 8762 8762 8762 8166	9848 9776 9776 9776 9777	9848 9776 9776 9776 9682 8762 8762 8782 8782 7487	98488 97146 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176 97176	9848 97746 96776 96776 96776 96776 9612 8762 8762 8762 8762 8762 8762 8762 876	99848 97848 9682 9682 9912 8712 8712 8713 8713 8713 8713 8713 8713 8713 8713	9848 9748 9748 9682 9682 9682 8762 8762 8762 8762 8762 8763 8763 8763 8763 8763 8763 8763 8763	9848 9746 9682 9682 9682 9410 9410 9682 8762 8762 8762 7757 7669 6669 6653 7834 7834 7834 7834 7834 7834 7834 783	9848 97848 9682 9682 9682 9682 8762 8762 8762 7782 7782 7782 7782 7	9848 9748 9682 9682 9682 9682 8762 8762 8762 8762 8762 8763 7865 7865 666 666 6783 8783 8783 8783 8783 8783 8	9848 97448 9682 9682 9682 9682 8762 8762 8765 7765 7765 6666 6653 6653 6656 6666 666	98488 97848 96826 96826 96826 96826 96826 97826 8762 8762 8762 8762 8763 8763 8763 8763 8763 8763 8763 8763	9848 9748 9748 9748 9748 9748 9748 9748	98488 97448 9682 9682 9682 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	9848 9748 9748 9682 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	98488 97848 9682 9682 97848 9682 8762 8762 8762 8762 8762 8762 8762 8	98488 97848 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	9848 97748 9682 9682 9682 97746 9682 8762 8762 8762 8762 8762 8762 8762 8	9848 97848 9682 9682 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	9848 97488 9682 9682 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	9848 97486 9	98488 97848 96826 96826 96826 96826 87622 87623 87623 87623 87623 87623 87623 87623 87623 87633	98488 97848 9682 9682 9682 9682 8762 8762 8762 8762 8762 8762 8762 8	98488 97848 97848 97848 9682 97848 97848 97848 97848 97848 978489 978489 978489 978489 978489 978489 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899 9784899
	20.00	6666	9486	0000	0600	9000	9966	. 9861	6626	6126	. 9615	0496	0000	. 9329	2416	8924	. 8675	. 8395	.8086	0522	. 7392	. 7015	. 6622		.6220	.5813	. 5404	. 4999	. 4602	. 4216	3844	3488	2010	. 2540		.2267	.2014	1784	1574	. 1383	. 1212	. 1059	. 0922	
	19.50	6666	9986	0366	0000	2000	0066	9859	2626	9126	.9612	0400	2000	. 9329	. 9138	8926	. 8670	.8390	.8082	7472	. 7389	. 7012	.6620		.6219	.5811	.5403	. 4999	.4602	4216	.3845	3490	4018	. 2542		. 2269	.2016	. 1786	. 1575	. 1385	. 1214	. 1060	. 6923	
	19.00	6666.	. 9985	0100	9636	0000	5966	. 9856	\$626	. 9712	.9698	0440	0146	. 9321	. 9133	. 8915	. 8665	.8386	.8077	.7743	. 7385	6002	.6618		.6217	.5810	.5403	.4999	.4603	. 4217	.3846	.3491	.3155	. 2544		.2271	. 2019	. 1788	. 1578	. 1387	. 1216	. 1062	. 0925	
	18.59	6666.	9985	4000	2000	0000	1966	. 9854	1626	6026	. 9664	72.00	+3+6	. 9316	. 9128	. 89 10	.8660	.8381	8073	.7738	.7381	9002	. 6615		.6215	. 5809	.5402	4999	.4603	.4218	.3847	.3493	3157	. 2547		. 2273	. 2021	0621	. 1580	. 1389	. 1218	. 1064	. 0927	
	18.66	6666	9984	0000	0000	0000	6696	. 9851	9826	6262	9696	0440	. 046.	. 9311	. 9123	.8964	. 8655	.8375	. 8067	.7734	7327	.7002	.6612		.6213	.5807	.5401	.4999	.4603	. 4219	.3849	3495	.3159	2544		. 2275	. 2023	. 1793	. 1582	. 1392	1220	. 1066	. 0929	
(CEPa)	17.50	6666	. 9983	2366	9000	1866	. 9896	. 9848	.9784	1026	. 9595		. 9404	. 9305	2116.	8888	.8649	.8320	.8962	.7729	.7373	8669	6099		.6210	.5806	.5400	6664.	. 4604	. 4220	. 3850	3497	.3162	. 2552		. 2278	.2026	. 1795	. 1585	1394	. 1223	. 1068	. 0931	
a (WR)	12.99	6666	.9983	1266.	4066	6266	. 9894	. 9845	.9781	2696	.9590		9498	. 9299	.9111	. 8892	.8642	.8363	.8056	.7723	.7368	4669	9099		.6208	.5804	.5400	.4998	.4604	. 4221	. 3852	.3499	.3164	2554		.2281	. 2029	1798	. 1588	1397	1225	1201	6933	
RADIUS/CEP	16.50	6666	. 9982	9256	2000	2766	.9891	. 9842	9226	.9692	.9585		. 9452	. 9293	. 9164	. 8885	. 8635	.8356	.8920	2122	.7363	9669	. 6602		. 6205	.5802	.5399	.4998	.4605	. 4222	. 3854	.3501	.3167	. 2852		. 2284	. 2032	. 1801	1591	1400	1228	1074	9800	A STATE
	16.00	6666	1866	6966	1666.	4266	. 9888	. 9838	. 9772	.9686	6226		. 9446	. 9285	9606	. 8877	.8628	.8349	.8043	1122	.7357	. 6985	. 6598		.6202	.5800	.5397	.4998	.4606	. 4224	.3856	.3503	.3169	. 2855		.2288	.2036	1895	1594	1403	. 1231	7201.	9000	1000
NEAPON	15.50	6666	9866	2966	6566	.9922	. 9884	. 9834	2926	.9681	.9572		. 9438	.9278	.9088	. 8869	.8619	.8341	.8035	4022	.7351	.6980	.6594		6619	.5798	.5396	.4998	.4606	. 4225	.3858	.3506	.3172	. 2858		. 2292	2040	1809	1598	1407	1235	. 1686	0000	
	15.00	6666	8266	. 9965	9946	6166	.9881	.9829	1926	4296	.9265		. 9430	. 9269	6206	.8859	.8610	.8332	.8027	9692	7344	4269	. 6589		6195	9629	5395	2664.	.4607	. 4227	.3860	.3509	.3176	2862		2296	2044	1813	1600	141	1238	1683	9945	
	14.50	6666	2266	.9964	4466	6915	9286	.9824	9755	2996	2926		. 9422	.9260	6906	.8849	.8699	.8322	.8017	.7688	7337	2969	. 6584		1619	.5793	5393	7664	.4608	.4228	.3862	.3512	.3180	. 2866		2300	2049	1818	1607	1415	1243	1087	0040	1111
	14.00	6666	9975	1966	.9941	. 9912	.9872	.9813	.9743	6296	. 9548		. 9412	. 9249	.9058	.8838	.8589	.8311	2008	.7678	7328	6969	. 6578		6187	9629	5392	2664	.4608	.4230	.3865	.3516	.3184	2578		2305	2024	1823	1619	1400	1947	1092	0000	41.7.1.3
	13.50	6666	\$266 .	6266	2866	8066	.9866	.9312	1426	9650	.9538		.9401	.9238	.9046	.8826	.8377	.8300	9662	8992	6182	6952	. 6572		6182	5786	5390	4996	4609	. 4232	.3868	.3519	.3188	2876		2311	2059	1838	1617	1496	00001	2601	9057	
	13.66	6666	.9972	.9956	. 9934	.9963	.9861	.9805	.9732	.9641	. 9527		6386	. 9225	.9035	.8812	.8363	.8286	. 7984	7657	7309	6944	. 6565		6176	5783	5388	.4996	4610	.4234	1288	.3524	.3193	2881		2317	2066	1835	16.93	1435	8501	1102	0.900	7011
		0.00	0.50	6.52	0.24	9.20	0.58	09.0	0.62	9.64	99.0		89.0	02.0	6.72	42.0	92.0	6.78	0.80	6.82	0.84	0.86	9.88		96 9	6.92	6.94	96.0	86.0	1.00	1.02	1.04	1.06	1.68		1, 12	14	116	8	1 20	1 22	1.24	1.26	

A2 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 20\%$ WR

P			*					*			96199		*		*					. 0034							*	•					. 6663	000	. 0002	. 0002	. 0002	. 6661	. 0001	. 6661	1000	1000	1000
	20.00	9699	8020	65150	0440	0200		. 6324	. 6226	. 6235	0200	44.0		010	9000	8288	906	9951	. 6643	. 0036	. 6636	. 0025		. 0021	2100.	. 0014	. 6612	. 0010	. 0008	2000	0000	0000	. 0003	0000	. 6663	. 6662	. 0002	. 0005	. 9661	. 0001	. 0001	. 0001	. 0001
	19.50	9694	0020	. 0516	6443	9350	2000	0250	. 6277	. 6236	020	0144	0010	60103	9987	6473	1900	. 9951	. 6643	. 0036	. 6636	. 0025		. 6621	2100.	. 0015	. 6612	. 6616	. 6668	2000	2000	0000	. 6663	0000	5000	. 0002	. 0005	. 0005	. 6661	. 0001	1000	. 0001	1000
	19.00	. 9695	. 9691	. 0517	. 0444	0381	9000	0200	8276	. 023	. 6261	0144	0010	0.103	9087	. 9973	1900	. 0051	. 0043	.0036	. 0030	. 0025		. 0021	. 0018	. 6615	.0012	. 6616	8000	2000	9000	0004	. 0003	0000	0000	2000	2000	2000	1000	. 6661	1000	1000	1000
	18.50	2690	. 8682	. 0518	. 0445	6389	6397	0000		0000	. 0171	6145	60103	. 6163	. 9987	. 6673	. 0062	. 0052	. 9943	. 0036	. 0030	. 0025		. 6621	. 6618	. 0015	2100.	9199	8000	9000	9000	0004	. 6663	9993	0000	2000	2000	2000	1000	. 600	1000	. 0001	1000
	18.00	6690	. 0603	. 0520	. 0447	. 0383	8328	0000	0000	0000	. 0172	0.145	. 6123	. 0104	. 6687	4200.	.0062	. 0052	. 6643	. 0036	. 6636	. 0025		. 0021	. 6618	0100	2100	9000	0000	9000	0000	. 0004	. 0003	0000	0000	2000	2000	2000	1000	1000	.0001	1000	1000
(EPa)	17.50	0620	. 0605	. 0521	. 0448	. 0384	6329	0.00	0000	0200	. 0172	.0146	. 0123	.0104	. 9988	£200 .	.0062	. 0052	. 0044	. 0037	. 6631	9299		. 6021	8199	6100	2100	9000	0000	9000	. 0000	. 0004	. 00003	6000	0000	0000	2000	1000	1000	1000	1000	1000	1000
WEAPON RADIUS/CEPa (WR/CEPa)	17.00	. 9792	2090	. 0523	. 0420	. 0386	. 6336	GBGB	0240	9000	6173	. 0147	. 6124	. 0105	.0088	. 0074	. 0062	. 0052	. 0044	. 0037	. 9931	. 0020		. 0021	2100	0100	0100	9999	0002	9000	. 0005	. 6664	. 0003	.0003	0000	6000	2000	1000	1000	1000	0001	1000	0000
JS/CEP	16.50	6202	6090	. 0525	. 6451	. 0387	. 0331	6283	0241	0200	. 0174	. 0147	.0125	.0105	6800.	9052	. 9963	. 0053	. 0044	2800	. 6631	9799	0000	2700	0100	0100	0100	0000	0000	9000	. 0005	. 0004	. 6663	. 6663	cooo	0000	0000	1000	9991	000	1000	90001	0000
RADII	16.90	2020	. 0611	. 0527	. 0453	. 0389	. 0333	0284	0240	9506	9119	.0148	.0125	9016	6800	6002	. 6663	. 0053	. 0044	2800	1500	9799	0000	2700	0100	0010	90100	0000	2000	9000	. 0005	. 0004	. 0003	. 0003	6000	0000	0000	1900	9901	9001	0001	0001	000
EAPON	15.50	. 9719	.0613	. 0529	. 6455	. 0390	. 0334	. 0285	0243	0207	9210	.0149	.0126	9010	0600	2200	. 0063	. 0053	. 6665	. 6637	1000	0700.	0000	2200	90100	6613	9199	6000	2000	. 9996	. 6665	. 0004	. 0003	. 0003	. 6662	0000	2000	0001	9001	0001	0001	4001	1000
≥	15.00	. 6712	9616	. 6531	. 0457	. 6392	. 0336	. 6287	. 0245	. 0208	2210.	.0150	. 0127	2010	9699	9200	. 0064	. 9004	0000	9999	2000	0700.	6600	0100	0012	.0013	1100	6000	2000	. 6666	. 6665	. 0004	. 6663	. 0003	. 6662	. 6662	. 6662	1000	0001	1000	1000	1000	1000
	14.50	9120	6190	. 6534	6650	. 6394	. 6338	. 0289	. 0246	. 0209	.0178	. 0151	. 0128	.0108	. 6691	2200	. 0004	+can .	6400	0000	0000		0000	9018	0012	. 0013	1100	9000.	2000	9000	. 0005	. 0004	. 0003	. 0003	. 0003	. 6662	. 0002	. 9991	1000	1000	1000	1000	1000
	14.00	6120	2790	1999	1040	2650	.0340	. 6290	. 6248	. 0211	6210	.0152	61136	6016	2600	2200	6999	0000	00000	0030	6007		ccon	0100	9100	. 6613	. 6611	6000	2000	9000	. 6665	. 0004	. 0004	. 0003	.0002	. 6662	. 6662	1000	6661	1000	1000	1000	1000
	13.50	. 0723	0740	9450	00000	6666	. 6342	. 0292	. 0220	. 0212	.0181	.0153	. 6136	0110	2600	8790	0000	0000	94430	6683	2000		6693	9100	. 6616	. 0013	. 6611	6969	8000	9999	. 0005	4000	+000	. 0003	. 0005	0000	9992	1000	9991	. 1999	0001	1999	1999
	13.66	. 0727	90000	9440	0440	1000	. 6343	6562	. 0252	. 0214	.0182	. 0154	. 6131	1110	0000	60000	9999	9947	9639	.0033	2000		0023	6100	.0016	. 6613	. 0011	6000	8000	9000	.0005	6000	+000	.0003	. 0002	. 0002	. 9992	1000	1999	1000	1999	1000	1999
		.30	24	36	30		94	. 42	++	. 46	.48	.50	7.	+0.	200	66	69	144	99	68	0.2		22	74	92	78	3	29	8+	86	99	000	1	46	96	86	99	62	94	90	96	1.0	12

A3 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d)=30\%\,\text{WR}$

WEAPON RADIUS/CEPa(WR/CEPa)

1.66	4566 45566 44585 4249 3882 3661 3421 3167	2995 2641 2122 2122 1876 1642 1224 1942 9878	9497 9324 90204 9040 9060 9000 9000 9000	99999 99999 99999 99999 99999 99999 9999
96.9	3961 3996 3996 3824 3729 3268 3268 3888	2673 2246 22247 2035 1829 1639 1264 1199 0949 0813	9581 9492 9175 9175 9116 9119 9117 9117 9117 9117 9117 9117	90909
9.80	33246 33246 32242 33242 33167 23674 2552 2552	2335 2233 2233 2233 2233 1733 1733 1733 1733	.0664 0487 0348 0242 0164 0069 0069 0006 0006	000000000000000000000000000000000000000
9.79	25.55.55.55.55.55.55.55.55.55.55.55.55.5	2072 1957 1859 1718 1597 1597 1124 1128 11028	.6736 .0558 .0558 .0323 .0235 .0117 .00117 .0035	000000000000000000000000000000000000000
09.0	2169 2169 2009 2009 2009 2009 1902 1902 1843	1708 11534 11537 11396 11313 1147 11666 09986	.0760 .0507 .0507 .0507 .0216 .0216 .0137 .0100	
9.55	1817 1814 1884 1788 1765 1765 1792 1618 1569	1516 11359 11359 11273 11268 1142 1142 11675 11669 11675 11689	0734 06332 06332 06334 02334 06334 06334 06334 06336 0699	00000
0.50	1538 1538 1517 1517 1599 1698 1735 1735 1735 1735 1735 1735 1735 1735	1277 1232 11232 1138 11988 10986 09986 0986 09883 09883	.0731 .0634 .0544 .0461 .0385 .0318 .0210 .0210 .010	9000 9000 9000 9000 9000 9000
6.45	1273 1227 1226 1226 1237 1233 1236 1236 1236 1236 1236 1236 1236	.1121 1060 1060 1060 1082 0992 0992 09881 0881 0765	.06688 .06688 .06689 .06693 .06693 .06693 .06693	9855 9855 9869 9889 9889 9889 9889
9.40	1026 1025 1025 1002 1006 1009 1009 1009 1009 1009 1009 1009	.0926 .0996 .0885 .0883 .0883 .0814 .0783 .0763 .0708	.0624 .0568 .0568 .0459 .0408 .0271 .0271 .0128	9000 9000 9000 9000 9000 9000 9000 900
0.35	0799 0799 07997 0789 0788 0777 0769 0769	.0738 .0726 .0726 .0698 .0668 .0668 .0635 .0635	05543 05543 05543 05545 0553 0552 0552 0552 0552	9090 9090 9090 9090 9090 9090 9090 909
9.39	00000000000000000000000000000000000000	00000000000000000000000000000000000000	0447 0349 0349 0349 0249 0252 0252 0252 0178	. 6005 . 6005 . 6005 . 6001 . 6001 . 6005 . 6005
6.25	0420 0420 0419 04119 04114 04111 0460	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	.0343 0330 0330 0330 0330 0244 0224 0224	00147 000118 00093 00094 00040 00014 00014
0.20	0272 0272 0271 0271 0271 0269 0269 0267	90000000000000000000000000000000000000	0238 0232 0226 0226 0213 0206 0191 0191 0176	. 6138 . 6119 . 6119 . 6659 . 6659 . 6659 . 6638 . 6638
6.15	445199999999999999999999999999999999999	00152 00150 00150 00149 00147 00146	0143 01143 01134 01134 01126 01129 01129	9195 9097 9089 9089 9067 9067 90951 9094 9098
9.19	6900 6900 6900 6900 6900 6900 6900 6900	9969 9969 9969 9969 9969 9969 79969 79969	99965 9966 9966 9965 9965 9966 9966 996	99939 99936 99936 99947 99947 99939 99939
9.92	2100 2100 2100 2100 2100 2100 2100 2100	00000000000000000000000000000000000000	2100 2100 2100 2100 2100 2100 2100 2100	99915
	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 - 1 - 1 - 1 - 1 - 0 0 0 0 0 0 0 0 0 0 0	01010100000000044 0144600014400000000000	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

WEAPON RADIUS/CEP_a (WR/CEP_a)

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 30% WR

2.59 2.69		8963 .9969 8963 .9969 88696 .8715 8379 .8489 8129 .8229	7829 .7936 7519 .7612 7762 .7259 6791 .688 6399 .6478 5572 .6638		3496 3496 3496 3496 3496 2429 2429 2122 2122 21893 11848 11848 11848 11848 11848 11848		9691 . 9665 9576 . 9551 9324 . 9367 9216 . 9284 9142 . 9133
2.40 2.		88844 .89 8686 .88 8484 .86 8257 .83	77713 7898 7858 7858 7858 7858 7858 7858 7858		3495 3127 3127 2452 2452 2156 2156 2167 1621 1621 1594		2000 2000 2000 2000 2000 2000 2000 200
2.30		8709 6 8344 8 8349 8 8124 8	77587 69945 65945 6592 75837 75837 75837 75837 75837 75837 75837		2492 2794 2794 2475 2475 2475 267 1656	* * *	0432 0522 0354 0165
2.20	.8931 .8916 .8871 .8796	. 8392 . 8392 . 8198 . 7976	7448 6823 6489 6489 6121 5759 5379	. 4601 . 4221 . 3848	3486 3139 2289 2297 1939 1693	. 1988 . 1988 . 6928	. 6559 . 6559 . 6179
2.18	.8757 .8742 .8697 .8622 .8622	.8384 .8222 .8939 .7811	7296 66689 6689 66358 6612 56912 52936 6935	.4551	.3478 .3142 .2822 .2529 .2529 .1731	. 1389 . 1129 . 6969	. 6593 . 6593 . 6417 . 6196 . 6132
2.00	.8557 .8542 .8428 .8424	. 8196 . 8636 . 7843 . 7629	. 7129 . 6846 . 6544 . 6225 . 5589 . 5291 . 5291	,4495 ,4145 ,3861	3466 3143 25834 25541 2008 2008 1770	1353	96631 96631 9631 9631 9631 9631
1.90	.8329 .8314 .8271 .8199	7970 7814 7633 7426	.6944 .6673 .6384 .6979 .5763 .5184 .5184	. 4432 . 4698 . 3776	3450 3140 22843 22843 22843 2843 1811	1069	. 0428 . 0486 . 0248 . 0240
1.89	.8068 .8054 .8012 .7942	7572 7572 7398 7200 6981	6744 6298 6298 5999 5311 4996	.4966	3428 3133 2577 2326 2978 1852	1272	6836 6836 6729 6527 6379 6187
1.70	7777 7759 177 1652 1652 1652	7443 7301 7136 6949 6741	6515 66271 6613 5745 5775 4875 4575	.3980	2399 2120 2399 2391 2391 2112 1893	1326	. 6896 . 6773 . 6419 . 6381
1.60	7438 7426 7388 7326	6997 6843 6668 6668	626 603 603 603 603 603 603 603 603 603 60	.4184 .3906 .5632	23699 23699 23699 23699 23699 23699 23699 23699	1381	. 6949 6627 6627 69466 69466 6245
1.50	. 7964 . 7953 . 7918 . 6961	.6580 .6658 .6516 .6356	557777 557777 55325 46836 45837 45837	. 3818 . 3564	3314 3869 2831 2831 2386 17869 17869	1283	. 6892 . 6686 . 6519 . 6387 . 6284
1.40	. 6648 . 6686 . 6586 . 6554 . 6583	. 6392 . 6282 . 6154 . 6818 . 5858	5675 5488 5289 5088 4646 4646 4180	.3713	3252 3626 2867 2593 2593 2066 1621	1344	
1.30	.6188 .6179 .6151 .6106	5963 5866 5754 5626 5485	5332 5166 4499 4616 4616 4006	.3588	2172 2968 2572 2572 22883 2024 1856	1545	950 950 950 950 950 950 950 950 950 950
1.20		5493 5416 5314 5285	4952 4810 48499 4332 4166 3984		2869 27888 2789 2533 2196 2196 21881	1591	9896 9720 9720 9452
1.10	.5143 .5137 .5118 .5086	+984 +916 +836 +745 +645	4534 4289 4155 4155 4016 3870 3721	32512	2933 2623 23471 2173 2029 1899	1562	0800 0652 0652 0652 0653
	9.00	66666	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.95	20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2000	3232222

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 30\%$ WR

	2.69	99999 99999 99999 99999 99999 99999 9999
	2.50	90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000
	2.40	9000 9000 9000 9000 9000 9000 9000 900
	2.39	99919 99919 99919 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909 99909
	2.20	90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000
	2.10	90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000
(Pa)	2.88	. 6000 . 6000
(WR/CEP _a)	1.96	90000
S/CEP _a	1.80	90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000 90000
RADIUS/	1.76	. 60000
WEAPON	1.60	6000 6000 6000 6000 6000 6000 6000 600
WE	1.50	98472 98472 98472 98472 98481
	1.40	. 6000 . 6000
	1.30	0000 0000 0000 0000 0000 0000 0000 0000 0000
	1.20	90100 9000 9000 9000 9000 9000 9000 900
	1.10	00000 00000 00000 00000 00000 00000 0000
		1.0101010101010101010101010101010101010

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 30\%$ WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60
1670	9220	9690	0773	9834	9879	0011	9000	0500	900	9074	1800	9860	0000	0000	9994
	6969	9678	0763	9895	0871	2000	0600	9948	1900	1200	9028	9984	9998	0000	0000
	0200	9644	0240	0.100	0847	0000	0100	0000	9948	0900	0900	9200	1800	9000	9999
	0460	1000	0670	075	1000	. 1001	0000	10000	0000	0000	000	0000	0000	0000	0000
	0000	2000		10000	0000	1000	0000	0000	1000	1000	1000	0000	0000	1166	
	9300	6646	1006	9000	7476	1636	9000	. 9000	. 9000	6066	1266	4666	***	5666	9966
	0+76	1384	. 9490	. 9563	. 9693	0126	9696	4636	. 9620	1096	7,06	9886	6066	3166	9766
•	1606	. 9238	. 9357	. 9454	. 9534	0096	. 9654	9026	8226	1226.	8626	. 9822	. 9842	. 9859	. 9874
	.8963	. 9057	. 9184	.9290	6286	.9453	. 9517	1226.	2196	.9656	1696	.9721	. 9747	6926	6826
	.8680	.8839	.8973	9896	.9183	.9266	9337	6386	9452	6646	.9540	9226	.9698	. 9637	.9662
•	.8421	. 8583	.8721	. 8840	. 8942	.9031	6016	2216.	.9237	.9291	.9338	.9380	.9417	.9451	.9481
9	.8125	.8287	.8427	. 8548	.8654	.8747	.8829	. 8902	.8966	.9024	9206	. 9122	.9164	.9202	.9237
	2002	8158	ROGR	8410	85.05	86.10	8702	8776	8841	8999	8953	000	9044	9083	0110
	7064	0000	1710	0000	0000	0400	1950	06490	1000	1070	0000	0000	0100	0000	0000
	1001	10000	1010	2010	.000	5040	0000	0400	0.00	00000	1000	. 0000	0110	00400	0000
+	6777	. (882	6100	. 6139	6554	. 8338	1240	. 8446	2909	. 8623	999	97.79	9779	. 8811	. 6648
4	1822	2822	0282	8862	.8092	.8185	8568	.8342	8409	8468	.8523	. 8572	. 8617	. 8657	.8695
6	.7432	. 7583	4122	. 7830	.7933	.8025	.8106	8179	. 8245	. 8305	.8358	.8407	. 8452	.8492	.8529
0	.7278	.7425	. 7553	9992	2922	. 7856	.7936	.8008	.8073	.8131	.8184	8232	.8276	.8316	.8353
2	7120	.7262	. 7386	7496	7594	7681	2758	7828	1682	7948	8000	8047	8090	8129	8165
_	6958	7094	7214	7320	7414	7498	7573	7641	2702	7757	7807	7852	7893	7931	2966
_	1629	6669	7637	7139	2999	2300	7381	7446	7504	7557	2665	7648	7688	77.94	7757
6478	.6621	. 6746	. 6855	6952	7038	7114	7183	7244	7300	7350	. 7395	7436	7474	7508	7539
3	6448	.6566	6299	1929	.6842	4169	6269	.7036	6802	.7136	8212	7217	.7252	.7284	.7313
10	0269	6383	6480	6566	6649	6700	6769	6893	6879	6015	5003	6001	2002	7059	7000
10	6004	6197	6288	6367	6438	6550	9229	6665	6650	6699	6796	6750	6780	6816	6840
	2013	6000	2003	9919	1003	0000	8669	2000	6494	6461	6400	66.00	6550	6574	2000
2 0	2010	0.000	5005	0010	1000	0070	0000	1000	10.	1040	2000	0000	0000	+ 2000	0000
	1000	. 3019	0600	2066.	1500.	5000	0110	6010	6610.	9770	2070	. 0283	0000	. 6328	.0346
0	949	9296	2690	2020	. 5816	. 5856	. 5896	. 5932	. 5964	. 5992	. 6018	. 6940	1969	6209	9609.
9	. 5364	. 5436	. 5497	. 5551	.5597	.5637	.5673	.5704	.5731	. 5755	2229	9629	. 5814	. 5829	.5843
10	.5180	. 5243	. 5297	.5344	.5384	.5418	5448	.5475	.5498	.5518	. 5536	.5552	.5566	.5579	.5590
0	9664	. 5951	.5098	.5137	1212	.5200	5225	.5246	5265	.5281	.5295	5308	.5319	5329	5337
9	.4812	.4859	4898	.4931	4959	4982	5002	5618	5033	5045	5956	5065	5973	5080	5086
1582	.4630	.4668	. 4200	.4726	. 4748	. 4766	.4780	.4793	.4803	.4812	. 4819	. 4825	.4830	. 4835	.4838
6	. 4448	4479	.4504	. 4523	. 4539	. 4552	.4562	. 4570	.4576	.4581	. 4585	.4588	. 4591	. 4592	4594
88	4269	.4292	4310	4323	4333	4340	4346	.4350	4352	4354	4355	4355	4355	4355	4354
0	4091	4107	4118	4125	4130	4133	4134	4134	4133	4131	4190	4197	4195	4199	4190
c	3016	2002	2000	2031	3031	3000	3000	3000	30.00	2013	3000	2004	2000	1000	1000
11	37.4	3746	2744	2741	2000	0220	0200	100	2700	020	3604	0096	1096	2000	0996
	****	0110	100	+100	00100	6216.	0200	01.20	0010	1000	+600	. 3555	1995	0,000	. 3000
01	6266	93000	.3363	4000	. 3545	. 3535	4202	4108.	5005	3490	3486	.346	3469	.3461	.3454
	.3409	. 3398	. 3386	. 3373	.3359	.3345	3332	. 3319	3305	.3295	.3284	.3274	.3264	.3255	. 3247
3261	3237	3231	. 3213	.3196	.3178	.3161	3145	.3130	.3116	.3102	.3089	.3078	.3067	.3057	3047
5	.3089	3906	.3046	3024	.3003	. 2934	. 2965	2562	. 2931	. 2916	2905	. 2889	. 2877	.2866	. 2855
_	. 2935	. 2939	. 2883	. 2858	. 2834	. 2812	1625	. 2772	2754	. 2737	2722	2708	2692	.2683	2672

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 30\%$ WR

WEAPON RADIUS/CEPa (WR/CEPa)

. 2048 . 2035 . 2022 . 1906 . 1893 . 1880 . 1772 . 1759 . 1746 . 1646 . 1632 . 1620
. 1677 . 1660 .
1575
. 1595 .
1528 . 1504
1679 . 1645
1581 . 1671
1736 . 1
. 1662
1819
. 1756
1922
30

	13.50	6666	6666	6666	6666	6666	2666	9666	6966	. 9926	. 9821	9649	4559	9443	4314	9168	9994	8823	8625	8410	8180	7867	.7682	.7416	.7142	1989	.6576	.6287	. 5998	6029	.5422	.5138	.4860	.4588	4323	4065	3817	3577	3348	3128	9018	0110	0530	2000
	13.66	6666	6666	6666	6666	6666	2666	6866	2966	9166.	9816	9641	9546	9434	9306	0120	8995	8814	8616	8402	8173	. 7930	2292	.7410	7817.	. 6857	.6572	6284	. 5995	. 57.07	.5421	.5138	.4860	.4588	4324	4067	3818	3579	3350	3130	1656	0000	10000	1007
	12.50	6666	6666	6666	6666	6666	2666	9966	9662	. 9912	9816	9633	9537	9495	9566	9149	8985	8864	Reas	8362	8164	1262	2992	.7403	.7131	. 6851	2929	.6280	. 5992	.5705	. 5419	.5137	.4860	.4589	4325	. 4068	.3820	3582	3352	3133	5654	2000	100	00000
	12.00	6666	6666	6666	6666	6666	9666	1966	.9962	8066	. 9803	9624	2686	9415	9285	9138	8974	8793	8505	8382	8154	.7912	6292	. 7396	.7124	. 6845	. 6562	.6276	. 5989	.5702	.5418	5137	. 4869	.4589	4326	4070	3822	3584	3355	3136	2656	0100	02.20	
	11.50	6666	6666.	6666	6666	6666	0000	. 9985	6266	. 9902	6626	9614	9126	9403	9973	9616	8961	8780	8583	8376	8142	. 7902	.7649	.7387	9112	. 6839	. 6557	. 6272	. 5986	.5766	.5416	.5136	.4860	.4590	.4327	.4072	3825	3587	3358	3139	9636	02431	0540	
	11.60	6666	6666.	6666	6666	9666	0666	. 9983	. 9955	9886	9826.	9602	9504	9389	9259	1116	8947	8766	8569	8357	8130	0682	.7638	. 7377	7107	.6831	. 6229	. 6267	. 5982	2695	.5414	. 5135	. 4860	. 4591	.4329	4074	.3827	3590	3361	3143	9934	0200	00.00	1107
CEPa)	10.50	6666	6666	6666	6666	9666	4666	1966	. 9951	6886	. 9775	9589	9489	9374	9243	2000	8931	8750	85533	8341	8115	9282	.7626	.7366	8602	. 6823	. 6543	.6261	2269.	.5694	.5412	. 5134	. 4860	. 4592	4330	4076	3830	3593	3365	3147	0800	0740	0220	1001
a (WR/CEPa	19.66	6666	6666	6666	6666	9666	1000	8266	. 9946	. 9881	. 9763	9573	9473	9357	2006	9627	8912	8732	8535	8324	8099	1982	.7612	.7353	. 7986	.6813	. 6535	. 6254	2269	. 5690	. 5409	.5132	. 4860	. 4592	.4332	4079	.3834	3597	3370	3152	2944	92.26	1000	
RADIUS/CEP _a	9.50	6666	6666	6666	6666	3666	1000	6366	.9940	. 9871	. 9749	9556	9454	9337	4504	9006	8891	8711	8515	8364	8080	.7843	9692	. 7338	8202	.6801	. 6525	.6246	. 5965	.5685	.5406	5131	. 4859	. 4593	4334	4682	3837	3691	3375	2918	0000	0440	100	DADW.
RADI	9.60	6666	6666.	6666	6666	9666	9966	9266	. 9932	. 9859	.9733	9535	9432	4314	9181	9031	8867	BARRA	8491	8281	8058	. 7823	2292	.7321	. 7058	.6788	.6514	. 6237	. 5958	6299	.5402	.5128	. 4829	4594	.4336	. 4085	.3841	3697	3381	3164	9656	0220	0220	
WEAPON	8.50	6666	6666	6666	8666	0666	2000	6066	. 9923	. 9845	4126	9511	9406	9287	9153	9003	.8838	8658	8463	8255	. 8033	6622	.7555	. 7301	. 2040	6229	. 6501	.6226	. 5949	.5673	. 5398	.5126	. 4858	. 4595	.4338	.4088	.3846	.3612	3387	3171	2964	2767	0220	
5	8.99	6666	6666	5555	2666	00000	70000	9666	. 9911	9858	9696	9482	9326	4255	9150	8970	. 8805	8625	8431	8223	. 8003	1222	.7529	.7278	6102	.6224	. 6485	.6212	. 5939	.5665	. 5392	.5123	. 4857	.4596	.4341	. 4693	.3852	3619	3395	3180	8266	0777	9589	
	2.59	6666	6666	6666	9666	0666	2366	6666	2686	2086	. 9662	9448	9340	9218	9082	8931	.8766	8586	8393	8187	. 7968	.7738	6642	.7250	+6669	.6732	.6466	2619.	. 5926	. 5655	.5386	.5119	. 4855	. 4597	. 4344	7604.	.3858	.3627	3464	3190	2984	9788	2661	1007
	90.5	6666	6666	8666	*666	0000	1000	3666	8286	1826	.9628	9408	9297	9173	9036	8884	. 8719	8540	8348	.8143	.7926	6692	.7462	7217	£969·	9029	6443	.6178	.5910	.5643	2289	.5113	. 4853	7624	.4347	.4102	.3865	.3636	3414	3201	2662	2802	2613	
	6.50	8666	8666	9666	1666	00100	6000	1766	. 9854	2426	.9586	. 9358	9245	6116	898	8828	.8663	8485	8294	8091	.7876	.7652	.7418	2212	. 6928	+299	.6415	.6154	. 5891	.5628	.5366	.5196	. 4849	.4597	4349	.4198	.3873	.3646	.3426	3215	3012	2818	2633	-
	9.99	2666.	9666	5666	5000	1000	0000	9000	4822	6926	. 9534	2656	1816	9053	.8913	8760	.8595	.8417	8228	.8027	.7816	.7595	. 7365	.7127	. 6884	. 6634	.6381	.6125	.5867	. 2609	. 5352	9600	. 4844	. 4596	. 4352	4114	.3883	.3658	.3441	.3231	3036	2837	2653	
			0.02			-	1	0.1									٠.		-		9.68		9.72			9.18				4		1				86.98					1.08	01.1	1.12	1

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}})$ =

A3

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 30% WR

13.50	. 2351	2182	2023	1873	1735	1601	1478	1363	1956	1157	1065	6260	0899	0826	. 0758	. 0695	. 0637	.0584	0534	0342	9217	0137	9860	9054	9034	. 0021	.0013	9000	.0005	.0003	.0005	. 000	000	000	9999	0000	9999	0000	0000	0000	0000	0000
13.00	2353	2184	2025	1876	1735	1604	1481	1366	1050	1159	1967	1860	1969	. 6828	.0260	2690	. 0639	. 0585	. 0536	. 0343	. 0217	0137	9899	9034	0034	. 6621	. 6613	. 0008	. 0005	. 0003	. 0002	. 0001	1000	1000	0000	9999	0000	0000	0000	0000	9999	. 0000
12.50	.2356	2187	2028	1878	1738	1606	1483	1368	1961	. 1162	6901	. 0983	. 0903	.0830	1920	8698	.0640	. 0587	. 0537	. 0344	.0218	0138	90086	0054	0034	. 0021	. 6613	. 0008	. 0005	. 6663	. 0002	1000	1000	0001	0000	0000	0000	0000	0000	0000	0000	. 0000
12.00	.2360	2191	2032	. 1882	1741	1610	1486	1371	1964	1164	. 1072	. 0986	9060	.0832	.0763	9920	.0642	.0588	.0539	. 0345	.0219	0138	2800	0054	0034	. 0021	. 0013	. 0008	. 0005	. 6663	. 0002	.0001	1000	1000	. 0000	0000	0000	0000	0000	0000	0000	0000
11.50	.2364	.2195	.2035	. 1886	1745	1613	1490	1375	1961	11167	. 1075	. 6988	8060	. 0834	9920	8020	. 0644	. 0590	. 0541	. 0346	.0220	0139	0087	. 9955	0034	. 0021	. 0013	. 0008	. 0005	. 6663	.0002	. 0001	.0001	. 0001	. 0000	0000	0000	0000	0000	0000	0000	0000
11.00	.2368	.2199	.2040	1890	1749	1617	1494	1379	1221	1111	. 1978	. 0992	. 0911	. 6837	6920	62020	. 0647	.0593	.0543	. 0348	. 0221	.0139	2800	. 9955	0034	. 0021	.0013	.0008	. 0000	. 0003	. 0002	. 0001	.0001	1000	. 0000	0000	0000	0000	0000	0000	0000	0000
10.50	. 2373	. 2204	.2045	. 1895	1754	1629	1498	1383	1275	. 1175	. 1982	6995	. 6915	. 9841	. 0772	8020	.0649	. 0595	. 0545	. 0349	. 0222	.0140	.0088	. 0055	. 0035	. 6022	.0014	. 0008	. 0005	. 0003	. 0002	. 0001	.0001	. 0001	. 0000	0000	.0000	0000	. 0000	0000	0000	. 0000
10.00	.2378	. 2210	. 2050	1900	6221	1627	1504	1388	1280	. 1180	. 1986	6660.	6160.	. 0844	6229	1120.	.0652	. 0598	. 0548	.0351	.0223	.0141	. 0089	. 0055	. 0035	. 0022	.0014	6000	. 0005	. 9093	.0000	1000	.0001	.0001	0000	0000	. 0000	0000	0000	0000	0000	.0000
9.20	. 2385	. 2216	.2057	1907	1766	. 1633	1510	1394	1286	. 1185	1601	1004	. 0924	.0849	6220	6715	. 0656	. 0602	.0551	. 0353	. 0225	.0142	6800	.0056	.0035	.0022	. 0014	6000	. 0005	.0003	. 0002	1000	.0001	. 0001	0000	0000	. 0000	0000	0000	0000	0000	0000
9.00	.2392	. 2224	. 2064	1914	. 1773	1641	1517	1401	1292	1191	2601	. 1010	6656	. 0654	. 0784	.0720	. 9669	9090	. 0555	. 0356	. 0226	.0143	0600	. 0056	. 0035	. 0022	.0014	6000	. 0005	. 0003	. 0002	. 0001	1000	. 0001	.0000	. 6000	0000	. 6666	0000	0000	0000	0000
8.20	.2401	. 2233	. 2073	. 1923	. 1782	. 1649	. 1525	1409	1300	6611	. 1105	2101	. 0935	.0860	0620	. 0725	. 9666	.0610	.0559	. 0359	. 0229	.0144	1600	2500.	.0036	. 0022	. 9914	6000	9000	. 0003	. 0002	1000	1000	1000	. 0000	0000	0000	0000	0000	0000	0000	.0000
8.00	.2411	. 2243	. 2684	. 1933	. 1792	. 1659	. 1535	. 1418	. 1309	. 1208	. 1113	. 1025	. 0943	2986	2620	. 6732	.0672	.0616	. 0565	. 0363	.0231	.0146	. 6692	.0058	.0036	. 0023	. 9914	6000	9000	. 0004	. 0002	1000	1000	1000	. 0000	. 0000	. 0000	0000	. 6666	. 0000	0000	9999
2.50	.2424	. 2255	.2096	1946	. 1804	1291	. 1546	. 1430	. 1326	. 1218	. 1123	. 1035	. 0952	9280	. 0805	. 0240	6290	. 0623	. 0571	. 0368	. 6234	.0148	. 6693	. 0059	2800	. 0023	. 0014	6000	9000	. 0004	. 0002	1000	.0001	.0001	0000	0000	0000	0000	0000	. 9999	0000	0000
2.66	.2438	.2270	.2111	1961.	. 1819	. 1686	.1561	. 1443	. 1334	. 1231	.1135	. 1046	. 0964	. 0887	. 0815	6420	. 6688	. 0632	6220	. 0373	. 6238	.0151	.0095	. 6666	2866	. 6623	.0015	6000	9000	. 6604	. 9902	. 9991	1000	1000	0000	0000	0000	0000	0000	9999	9999	9999
6.50	.2456	. 2288	.2129	6261	1837	. 1703	. 1578	. 1460	. 1356	. 1247	.1151	1901.	8260	0060	. 0828	. 0761	6690	. 0642	.0589	. 0380	.0243	.0154	2600	1966	.0038	. 9924	. 0015	6000	. 0006	. 0004	. 0002	1000	1900	1000	0000	. 0000	9999	0000	0000	0000	. 9999	9000
6.00	.2477	. 2310	.2151	. 2001	. 1859	. 1725	. 1599	1481	.1370	. 1267	0211	6201	. 0995	2160	. 0844	9220	. 0713	. 0655	. 0602	. 6389	. 6249	.0158	. 6166	. 6663	. 0039	. 0025	. 6015	0100	9000	. 9004	2000	2000	1000	1000	0000	0000	9996	9999	0000	. 6666	0000	0000
	1.14	1.16	1.1	1.20	1.22	1.24	1.26	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.59	1.60	1.70	1.80								99.00					W.	-				3.69		4

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{f d}) = 30\%$ WR

Pd	8	6666.	6666	6666	8666	2666	6666	2866	8266	. 9963	1466.	0166	9868	9814	9744	.9658	.9554	.9431	.9288	. 9125	. 8943	.8741	.8522	.8286	. 8035	1222	.7496	. 7212	. 6922	. 6626	. 6327	. 5730	.5435	.5144	. 4858	.4579	. 4309	. 4047	.3794	.3551	.3318	.3097
	20.00	6666.	6666	6666	6666	. 9992	9866	2266	4966	9944	2166.	.9881	9834	4226	9626	.9610	.9502	9326	. 9232	6906	. 8887	.8687	.8470	.8237	0662	.7730	. 7459	.7180	. 6894	. 6603	. 6309	. 5720	.5429	.5142	4859	.4584	. 4315	.4056	.3805	.3563	.3332	.3111
	19.50	6666	6666	6666	2666	. 9992	9866	9266	.9963	.9943	9166.	9880	9833	9772	9698	2096	.9500	. 9374	. 9229	9906	. 8884	.8684	.8467	.8235	8862	.7728	.7458	8212	. 6892	. 6602	. 6308	. 5720	.5429	.5141	.4859	4584	.4316	.4056	.3805	.3564	.3333	.3112
	19.00	6666	6666	6666	6666	1666	. 9985	9266	.9965	. 9942	.9915	9878	9831	9226	.9695	.9605	.9497	. 9371	. 9226	.9063	.8881	.8681	.8464	.8232	. 7985	.7726	.7456	2212.	. 6891	.6699	2089	. 5719	.5428	. 5141	.4859	. 4584	.4316	.4056	.3806	.3565	.3334	.3113
	18.50	6666	6666	6666	6666	1666	. 9985	2266	1966	. 9941	.9913	9876	9829	8926	.9693	.9602	.9494	.9368	. 9223	. 9966	.8878	8678	.8461	.8229	. 7982	.7723	.7453	2112	. 6889	. 6299	. 6306	. 57 19	.5428	.5141	.4859	. 4584	.4316	.4057	.3806	.3565	.3334	.3114
	18.00	6666	6666	6666	2666	1666	. 9984	4266	0966	.9940	.9912	. 9875	9826	9765	9696	.9599	.9490	.9364	.9219	.9956	.8874	.8675	.8458	.8226	6262	.7720	.7451	.7173	. 6887	. 6598	. 6305	. 5718	.5428	.5141	.4860	. 4585	.4317	.4058	3807	.3566	.3335	.3115
(CEP _a)	17.59	6666	6666	6666	4666	9666	. 9983	6266	6266	.9938	9166	. 9872	9824	.9763	.9687	.9595	.9487	.9360	.9215	. 9052	.8879	1298	.8454	.8222	9262	8122	.7448	0212	. 6885	. 6596	. 6304	. 5717	.5427	.5141	.4860	. 4585	.4317	.4058	.3808	.3567	.3336	.3116
Pa (WR)	17.00	6666	6666	6666	4666	9666	. 9983	6266	. 9958	2866	8066	9870	9821	926	.9683	.9592	.9483	.9356	. 9211	.9048	.8866	.8667	.8450	.8219	8262	4122	.7445	.7168	. 6883	. 6594	. 6302	. 57.17	.5427	.5141	.4860	. 4585	.4318	.4059	.3809	.3568	.3337	3117
WEAPON RADIUS/CEP _a (WR	16.50	6666	6666	6666	4666	6866	. 9982	.9972	.9956	. 9935	9066	.9868	9818	9526	9680	.9588	.9479	. 9352	. 9207	.9043	.8862	.8662	.8446	.8215	6962	1122.	.7442	.7165	.6881	. 6592	. 6301	. 5716	.5426	.5140	.4860	. 4585	.4318	.4060	.3810	.3569	.3338	.3118
N RAD	16.00	6666	6666	8666	6666	.9988	.9981	0266	.9955	.9933	. 9964	. 9865	9815	.9753	9296	.9583	. 9474	. 9347	. 9202	.9038	.8857	.8657	.8441	.8210	2962	2022	.7439	.7162	. 6878	. 6590	. 6299	. 5715	.5426	.5140	. 4860	.4586	.4319	.4060	.3811	.3570	.3340	.3119
WEAPO	15.50	6666	6666	8666	6666	8866	9866	6966	.9953	.9931	1966	.9862	.9812	9749	1296	.9578	.9469	. 9342	9616.	.9033	. 8851	.8652	.8436	.8205	0962	.7703	.7435	.7159	9289	. 6588	2629	. 5714	.5425	.5140	.4860	.4586	.4320	. 4061	.3812	.3571	.3341	.3121
	15.00	6666	6666	8666	2666	2866	6266	8966	.9951	.9929	9886.	.9859	9868	9744	2996	.9573	.9463	. 9336	9616	.9027	. 8845	.8646	.8431	.8200	2662.	6692	.7431	.7155	. 6873	. 6585	6295	. 57 13	.5424	.5140	.4860	. 4586	.4320	.4062	.3813	.3573	.3342	.3122
	14.50	6666	6666	8666	2666	9866	8266	9966	6666	.9926	. 9895	. 9855	9804	6226	.9661	.9267	.9457	. 9329	.9184	.9020	. 8838	.8640	.8425	.8194	0262	4692	7427	.7151	. 6869	. 6582	6293	. 5711	.5423	.5139	.4860	. 4587	.4321	.4063	.3814	.3574	.3344	.3124
	14.00	6666	6666	8666	1666	. 9985	2266	.9964	2466	.9923	.9892	. 9851	6626	.9734	.9655	.9561	.9450	. 9322	9216	.9013	.8831	.8633	.8418	.8188	. 7944	.7688	7422	7417	. 6865	6229	6590	. 5710	.5423	.5139	. 4860	. 4587	.4322	4964	.3815	. 3226	.3346	.3126
	13.50	6666	6666	2666	9666	4866	6266	.9965	. 9944	.9920	9888	.9846	4626	.9728	.9649	.9554	.9443	.9314	.9168	4006	. 8823	.8625	.8410	.8180	2862	.7682	.7416	.7142	. 6861	9259	. 6287	9669	.5422	.5138	.4869	.4588	.4323	. 4065	3817	2228	.3348	.3128
	13.00	6666	6666	2666	6866	. 9983	6266	9966	.9941	9166	9884	.9841	.9783	.9722	.9641	.9546	. 9434	.9306	6216	2668	.8814	. 8616	.8402	.8173	9862	.7675	.7410	7817	. 6857	. 6572	6284	5665	.5421	.5138	. 4860	. 4588	. 4324	.4067	.3818	.3579	.3320	.3136
		0.00	0.50	6.25	6.30	6.35	0.34	9.36	0.38	0.40	6.43	9.44	9.46	6.48	0.50	0.52	9.34	9.26	6.58	0.60	0.62	6.64	99.0	0.68	0.10	9.72	6.74	92.0	9.78	0.80	6.82	9.86	9.88	96.9	6.93	46.0	96.0	86.9	1.00	1.02	1.04	1.06

A3

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 30% WR

P	8	. 2885	2495	.2315	.2146	1988	. 1839	1699	1568	1446		. 1333	. 1227	. 1129	. 1038	. 6954	. 9876	6863	9737	9675	6190	. 0566		01.50	0120	10000	2000	9880	7000	1000	2000	0250	0220	. 0209		1610	. 0174	. 0129	. 0145	. 0132	.0150	6010	0100	1 600	. 0083
	20.00	2901	2511	2332	.2163	2004	1854	1714	1583	1461		. 1347	.1241.	. 1142	1650	. 0965	. 9886	9814	9746	9684	0627	9574		70.00	0700	1040	0000	2040	1989	. 6330	10000	9055	0233	. 0213		. 0194	2210	.0161	. 6147	6134	. 0122	. 0111	.0101	. 0002	. 0084
	19.50	.2901	2519	2333	.2164	2004	1855	1715	1584	1460	70+1.	. 1348	1241	. 1143	1651	9960	9887	9814	0747	9683	0627	0575		2000	9700	1040	0440	. 0402	9999	. 6336	10000	9550	6033	. 0213		4610	2210	. 0161	. 0147	. 0134	0122	. 0111	.0101	. 0092	. 0084
	19.00	.2902	2612	2333	2164	2002	1856	1716		1460	60+1.	.1348	. 1242	1143	1052	9960	OBBBB	0815	6747	9685	8698	9575	0.00.	0.00	9260	2940	1940	. 6463	. 0368	. 6336	3000	9926	0034	. 0213		.0194	. 0177	. 0162	. 0147	. 0134	. 0122	. 0111	. 0102	. 0092	. 0084
	18.50	. 2903	5514	2334	2165	2006	1857	1212	1021	1000	60+1.	. 1349	. 1243	144	1052	2960	ORRA	5180	9748	96.86	8690	9226	0.00.		. 0527	7940	1644	. 0403	. 0368	. 6337	9886	1979	4000	. 0213		.0195	. 0177	. 0162	. 0147	.0134	. 0122	.0112	.0102	. 0093	. 0084
	18.66	.2904	27.04	9336	2166	2000	1858	1710	11100	1001	+0+1.	. 1350	1244	1145	1053	000B	0880	9816	9740	06.06	9630	0576	0100.	-	. 0527	. 0483	. 0441	. 0404	. 0369	. 0337	. 9368	. 6281	4000	. 0213		.0195	.0178	. 0162	. 0148	.0134	.0123	.0112	.0102	. 6693	.0084
CEP _a)	17.50	. 2905	. 2795	2337	2168	2000	1850	1001	. 1019	0901	. 1465	1351	1945	1146	1054	0900	0800	0000	0100	6400	0630	0000	,,,,,,	1	. 0528	. 0483	. 0445	. 0404	. 0369	. 6337	. 9398	1959	1020	. 0214		.0195	. 0178	.0162	.0148	. 0135	. 0123	.0112	.0102	. 6693	. 0085
a (WR/CEPa	12.00	.2986	2707	2226	9169	0000	1860	1300	077	6901	. 1466	1359	1346	1147	100	0020	0801	1 600	0100	9639	0000	0000	,,,,,,		. 9528	. 0484	. 0445	0404	. 0320	. 0338	. 9398	. 0282	2000	. 0214		.0195	.0178	.0162	.0148	.0135	. 0123	.0112	.0102	.0093	. 0035
US/CEP	16.50	.2908	.2708	5000	0110	2000	1000	7001	1221	9601	. 1468	1353	1947	1148	9291	0021	0000	2600	0100	1679	. 0000	0000	area.		. 0529	. 0484	. 0443	. 0405	. 0370	.0338	. 6369	. 0282	2020	. 0214		. 0195	. 6178	.0163	. 6148	. 6135	. 6123	. 6112	. 6162	. 6693	. 0085
RADI	16.00	.2909	.2709	0207	0110	10100	5105	1003	. 1723	. 1592	. 1469	1355	1948	1140	1001	0000	2000	6699	6180	7070	. 0000	. 0000	. 6364		. 0530	.0485	. 0443	. 0405	. 0371	. 0339	. 6369	. 0282	8559	. 6215		9610	6210	.0163	. 6148	6135	. 0 123	. 0112	. 0102	6003	. 0085
WEAPON RADIUS/CEPa	15.50	.2911	.2711	12021	1000	2000	107	1990	4727	. 1593	1471	1356	1940	0211	00101	0000	0000	+690	0280	6620	9699	00000	6266		. 0531	.0486	. 0444	.0406	1280	. 6339	. 9310	. 0283	6258	. 0215		9610	6210	.0163	0149	0135	0123	. 6112	.0102	.0093	. 9985
S	15.00	.2912	. 27 13	. 4523	1100	0117	2010	1866	1726	. 1595	. 1472	9761	0000		2010	0000	1000	6689		. 6754	1690	. 00034	9900		. 0531	. 0486	. 0445	. 0407	. 6372	. 6346	. 6316	. 0283	. 6259	9539		9618	6210	.0163	0140	0136	6124	6113	0103	9000	. 0085
	14.50	. 2914	27.14	. 2525	100		2018	1868	. 1728	12651	1474	1950	0000	5555	5613	1000	0000	9680	. 9823	. 6733	2690	. 6633	. 0581		. 0532	. 0487	.0446	. 0407	. 9372	.0340	. 6311	. 0284	. 6229	0237		7610	0180	9164	0140	9136	4010	6113	6163	0004	. 0085
	14.00	.2916	.2717	. 2527	240	6012	9292	9281	9821	1599	. 1476	1.361	1001	100	cell.	1000	2060	8680	. 0824	. 6756	. 0694	. 0636	. 0582		.0533	. 0488	. 0447	. 6408	. 6373	. 6341	. 6312	. 6284	. 0260	6237	1	6197	0180	6164	0150	98136	4019	6113	6163	6004	. 0086
	13.50	.2918	6122	. 2530	1997	2012	2073	. 1873	. 1732	1691	1478	6761	1000	001	2011	1965	6360	6680	. 0856	. 6758	. 6693	. 0636	. 0584		. 0534	. 0489	. 0448	. 6469	. 0374	.0342	. 6312	. 0285	. 0260	6238		8010	0180	9164	0120	0.32	5010	6113	6163	0004	.0086
	13.86	2921	.2722	.2532	2333	5104	. 2025	9281	1735	1604	. 1481	,,,,,	1300	6071	6017	1001	1960	1060	. 0828	0920	2690	. 0639	. 0383		.0536	0440	. 0449	0410	. 0375	. 0343	. 0313	. 0286	. 9591	0238		8616	0.81	6165	0110	00100	0105	4110	0104	0000	. 0086
		1.68	1.10	1. 12	+	1.16	1.18	1.20	1.22	1.24	1.26	000	07.1	1.30	1.32	1.34	1.36	1.38	1.40	1.42	44.	1.46	1.48		1.50	1.52	1.54	1.56	1.58	1.69	1.62	1.64	1.66	1.68		1 20	14.	1 76	4	80	63.1	184	86	023	1.90

A3 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 30\% \, \mathrm{WR}$

13.00	13.50	14.00	14.50	15.00	15.50	16.99	16.50	17.66	17.50	18.66	18.50	19.86	19.50	29.00	3
8200	8200	8200	. 9978	. 0078	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	. 9973
1 200	1200	1200	1200	1200	1200	. 0070	0200	0200	0200	0200	0200	. 6676	9200	0200	. 0069
. 0063	. 0065	. 0065	. 0064	. 0064	. 9964	. 0064	. 9964	. 0064	. 0064	. 9964	. 6664	. 6664	. 9964	. 9963	. 996
. 0029	. 0039	. 6659	. 0059	. 6659	. 0058	. 0058	. 0058	. 0058	. 0058	. 6658	. 0058	. 0058	. 6658	. 9658	. 665
. 0054	. 0054	.0054	. 0053	. 0053	. 0053	. 0053	. 0053	. 0053	. 0053	. 0053	. 0053	. 6653	. 0053	. 0053	. 665
.0034	.0034	. 0034	.0033	. 6633	. 0033	. 6633	. 6633	. 0033	. 6633	. 6633	. 6633	. 6633	. 6633	. 6633	. 663
. 0021	. 6021	. 0021	. 6021	. 0021	. 0021	. 0021	. 0021	. 6621	. 6621	. 6621	. 6621	. 6621	. 6621	. 6621	. 002
. 0013	. 0013	. 0013	. 9913	. 0013	. 0013	.0013	. 6613	. 0013	. 0013	.0013	. 0013	. 6613	. 6613	. 0013	100
8000	8999	.0008	. 9998	. 0008	. 9998	. 0008	. 0008	. 9098	. 9998	. 9998	. 6668	. 6668	. 6668	8000	. 000
. 0005	. 0005	. 0005	. 0005	. 00005	. 0005	. 0005	. 0005	. 0005	. 0005	. 9995	. 0005	. 0000	. 0005	. 0005	. 999
. 9993	.0003	. 6063	. 0003	. 6663	. 0003	. 6663	. 9993	. 6663	. 6663	. 0003	. 9993	. 96.33	. 6663	. 0003	. 666
. 0002	.0002	. 0002	. 0002	. 0002	. 6662	. 0002	. 0002	. 0002	. 0002	. 0002	. 0002	. 6692	. 6662	. 6662	. 999
.0001	. 6661	. 6661	. 0001	. 0001	1000	. 9991	. 0001	1000	. 0001	1000	1000	1000	1000	1 000	. 999
1000	1000	1000	. 9991	. 0001	1000	. 9991	1000	. 000	. 0001	. 0001	1000	1000	. 6661	1000	. 000
. 9991	. 9991	1000	. 9991	. 0001	1000	1000	1000	. 6661	. 9991	1000	1000	. 9991	1000	1000	. 000
. 0000	. 9999	0000	. 9999	. 9999	. 0000	. 0000	. 0000	9000	. 9999	. 0000	. 0000	. 9999	0000	0000	. 9999
. 0000	. 9099	0000	. 0000	. 0000	. 0000	. 9999	. 6666	. 0000	. 9999	. 0000	. 9999	. 9999	9999	. 0000	000

44

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}})$ = 40% WR

	9	. 13	0.20	0.25	6.30	6.35	9.40	6.45	9 20	0.55	09.0	02.0	0.80	96 9	1 99
90		4.0	9229	6415	9588	9784	1001	1995	1485	1746	30.00	2572	3137	3608	4004
6900		0154	. 0270	. 6415	. 0587	. 6783	1000	1234	1483	1743	2012	2566	3127	3682	4218
. 60		153	. 6270	. 6415	. 9586	. 0781	2660	1229	1476	1734	. 2900	. 2546	3098	3640	4164
. 99	*	153	. 0269	. 6414	. 0585	. 0778	. 0992	. 1222	. 1465	6121	6261	.2513	.3049	.3572	4074
. 99		153	. 0269	. 6413	. 0582	4220	. 6985	. 1211	. 1450	1698	. 1951	.2468	. 2982	.3479	.3953
. 00	*	153	. 9268	. 6411	6250	6920	9269	1198	. 1430	11671	9161	.2411	.2897	.3364	.3802
. 00		153	. 0267	. 6469	. 0575	. 0762	. 0965	. 1181	1407	. 1639	. 1874	. 2343	.2798	.3227	3625
. 00		152	. 0266	. 0407	. 0571	. 9754	. 6953	. 1163	. 1380	. 1602	. 1825	. 2265	.2684	3673	3427
. 99		152	. 0265	. 0404	. 0566	. 0745	. 6939	. 1141	. 1350	. 1560	9221	.2178	.2559	. 2905	3212
. 00		152	. 0264	. 0402	. 0260	. 0735	. 0923	21111.	. 1316	. 1514	9121.	.2084	. 2425	.2725	. 2985
. 0068		0151	. 0263	. 6398	. 6554	. 0725	. 0905	1661.	. 1279	. 1465	. 1645	1984	. 2283	.2538	. 2750
. 00	*	(2)	. 0261	. 6395	. 0547	. 0713	. 0886	. 1963	. 1240	. 1412	1222	6281	.2135	. 2346	. 2513
. 96	,	120	. 0260	. 6391	. 0540	. 0200	. 9866	. 1033	8611.	. 1356	. 1595	. 1779	. 1985	.2152	. 2276
. 99	•	150	. 0258	. 0387	. 0532	. 9686	. 9845	1002	. 1154	. 1298	. 1430	. 1659	. 1834	. 1960	. 2045
. 00		641	. 0256	. 0383	. 0524	. 0672	. 0822	6960	. 1198	.1238	. 1354	. 1546	. 1684	. 1773	. 1822
. 00	*	148	. 0254	. 6378	. 0515	. 0657	6620	. 0935	. 1062	9211	. 1277	. 1435	.1536	1591	1619
. 00		148	. 0252	. 0373	. 0506	. 9641	4220	. 0960	. 1014	11114	6611	1324	. 1393	1418	14
. 00	•	147	. 0250	. 0368	. 9496	. 9625	. 0749	. 0864	. 0965	. 1051	. 1122	. 1216	. 1255	. 1255	1226
. 99		146	. 0247	. 0363	. 0486	. 0608	. 6723	. 0827	9160	6860	. 1645	11111	.1125	1102	1057
. 00		145	. 6245	. 6357	. 0475	. 0590	2690	0620	. 9867	. 0927	0260	1999	1001	1960	6965
. 00		144	. 0242	. 0352	. 0464	. 0573	0290	. 0753	. 6818	9980	9680	. 0913	. 9886	. 6833	. 0768
. 00		143	. 6237	. 6346	. 0442	. 0536	.0616	. 9678	.0722	.0747	9220	. 0735	.0681	.0612	. 054
. 00	*	141	. 6231	. 6327	. 6419	. 6499	. 0562	. 96.05	9639	9636	8628	0581	0512	0438	0371
. 9966		6138	. 6225	. 6314	. 6395	. 0461	9298	. 0535	6543	6534	4-50	0450	6375	9396	6947
. 60		136	. 0218	0300	. 0371	9424	9456	0468	0462	0443	6413	6341	0960	8000	0.16
00		134	. 0212	9286	.0346	0387	9496	0406	0380	6369	8020	0.054	0180	0138	0100
. 99	1 1 1	131	. 0265	0271	6322	0351	0320	034B	6394	1000	9556	9186	0130	9000	9064
. 00		129	2610	. 0257	. 0298	. 6316	. 6314	. 0296	. 0266	. 6232	9610	. 0133	. 0088	. 0058	6899
. 00		126	0610	. 6242	. 9274	. 0284	. 6273	. 0249	. 0217	.0182	. 6149	. 6694	. 0058	. 9936	. 0024
. 99		123	. 6183	. 6228	. 6251	. 0253	. 0236	. 0207	. 0174	. 6141	. 6111	. 0065	. 6638	. 0022	. 0014
. 60	. *	120	. 0175	. 6214	. 6229	. 6223	. 6262	. 9171	.0138	. 0108	. 6981	. 6644	. 0024	. 6614	. 0008
. 99		113	. 0126	6210	6210.	.0160	. 0132	.0101	4200	. 0052	. 0035	9100.	2000	. 0004	. 0002
. 0058	•	9105	. 0137	.0147	.0135	.0110	. 6682	. 9957	. 6637	. 0023	. 9914	. 0005	. 0002	. 0001	. 6661
. 60	•	960	6119	.0118	6600	. 9973	. 6649	. 0030	2100.	6000	. 0005	. 0002	1000	. 0000	. 0000
. 90	•	988	. 0102	. 6693	1200	. 6647	. 0027	. 0015	2000	. 0004	. 0002	. 0000	. 0000	. 0000	. 0000
. 00	•	989	. 9886	. 0072	. 0049	. 6029	. 6615	2000	. 6663	1000	. 6661	. 0000	0000	. 6666	. 0000
. 66		972	. 6672	. 6654	. 6633	2199	. 0008	. 6663	. 6661	. 0000	. 0000	. 0000	. 6666	. 0000	. 0000
. 66	•	965	6999	. 6646	. 0022	0100	. 9994	. 9991	. 0000	. 0000	. 6666	. 0000	. 0000	. 0000	. 0000
. 99	•	220	. 0048	. 0029	. 9914	. 6665	. 0002	. 0001	. 0000	. 0000	. 0000	. 0000	. 6666	. 0000	. 0000
. 99	•	921	. 0038	. 0021	. 0008	. 0003	1000	. 0000	. 0000	. 0000	. 0000	. 6666	. 0000	. 6666	. 6666
. 99	•	944	. 6636	. 9914	. 0005	. 9991	. 9999	. 0000	. 0000	. 6666	. 0000	. 9999	. 6666	. 0000	. 0000
. 66	-	938	4000	9010	0000		40.00.00	4 4 4 4	0000				4000		
		200		0100.	cana.	1000	0000	0000	0000	0000	0000	0000	0000	0000	0000

A4

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 40\% \, \mathrm{WR}$

WEAPON RADIUS/CEP_a (WR/CEP_a)

5.60	8951 8933 8869 8792 8669 8669 8511 8319 7839 7554	7256 6999 66999 66556 66556 66556 86651 86651 86651	3217 2966 2662 2662 2326 1638 1638 1625 11261 1261 1966	9846 9643 9643 99486 9275 9275 9116
2.50	8828 8818 8758 8679 8548 8392 7782 7731	7148 6823 6623 66178 6175 6175 6175 73375 33897 33897	3222 2516 2517 2344 1859 1285 1282 1282 1282 1282 1127	9864 9755 9658 9658 9376 9276 9212 9129 9129
2.40	8699 8673 8621 8535 8414 8261 7858 7613	7045 6728 66394 66945 76845 78323 74235 3886 3549	3226 22919 22631 2362 2362 2112 1881 1671 1479 1395	9884 9676 9676 9676 9388 9229 9165 9124
2.30	8537 8469 8469 8384 8266 8115 7723 7723	6932 66623 66623 5964 55618 55618 4511 3872 3543	2228 2228 2228 2238 2238 1965 1564 1133 1133 1133 1133 1133 1133	69967 6695 6695 6695 6695 6928 6121 6129
2.20	8365 8349 8299 8216 8101 77778 7373 7342	66809 65202 55202 55541 55261 55261 55261 53554 33554	2329 2329 22339 22339 21339 21339 11339 11339 11339	6932 6717 6717 6548 6416 6315 6238 6135
2.10	.8174 .8158 .8110 .8029 .7918 .7777 .7469 .7469	66673 66888 66888 6777 5777 5456 45136 4474 4156 3833	3227 2642 2642 2672 22417 1956 1156 11388 1088	0966 0742 0742 0569 0329 0188 0181
2.00	7946 7946 7899 7622 7715 7715 7716 7227 7227 7614	66522 5966 5966 5966 5968 5968 5968 5968 5968	3222 2946 2684 2684 2684 1982 1780 1780 1126	09991 0770 0770 0593 0454 0346 0160 0150
1.90	77724 77724 77663 77890 77890 77890 77890 77890 7890 7890	6359 6180 55547 5257 5257 6466 6466 6466 6466 6466 6466 6466 64	2214 2648 2648 2652 2626 2916 1625 1625 11298	. 1025 . 0997 . 0801 . 0621 . 0478 . 0365 . 0278 . 0211 . 0159
1.80	74662 74668 7337 72841 77241 6895 6614	6177 5934 5673 5673 5673 6713 6713 672 673 673 673 673 673 673 673 673 673 673	3200 2245 2700 2246 2246 2037 1841 1660 1660 1193	. 1962 . 0944 . 0944 . 0653 . 0505 . 0388 . 0297 . 0226 . 0171
1.79	7171 7158 7119 7055 6966 6853 6717 6559 6359	5975 55749 55749 5586 5586 4745 4488 4488 3956 3956 3431	3180 2937 2763 2763 2265 22663 1693 1693 1375	. 1103 . 6984 . 6984 . 6688 . 6537 . 6415 . 6244 . 6186
1.60	6838 6883 6883 6744 6562 6558 6433 6288 6125	5751 5542 5932 5932 4614 4614 4614 4122 3875 3838	3152 27922 27922 27966 22486 22886 2087 1738 1738 1738 1738 1747	
1.50	6498 6487 6487 6481 6232 6233 6128 5128 5128 5128	550 550 550 550 550 550 550 550 550 550	2898 2898 2689 2293 2293 2198 2198 1765 1669 1323	0967 0967 0977 0677 0616 0879 0227 0727
1.40	6026 6026 6026 6026 5961 5777 5660 5353 5383	30223 4494 4494 4494 30677 30677 30677	2862 2668 2286 2286 22298 2123 1736 1736 1563	1124 1127 11019 0826 0624 0618 0328 0328
1.30	5692 5684 5659 5618 5618 5481 5299 5184	4919 46119 46119 4647 46447 46968 3917 3351 3351	2992 2811 2633 2246 2229 2129 1972 1679 1543	. 1294 . 1186 . 1073 . 0882 . 0718 . 0589 . 0464 . 0291
1.20	5232 5232 5232 5124 5127 5499 5499 5499 5499 5499 5499 5499 549	4586 4453 4417 4117 4117 4115 3873 3873 3874 3892 3892 3892 3896 3896	2901 2739 2573 2273 2270 2122 1128 11839 11578	. 1341 . 1232 . 1129 . 6941 . 6778 . 6518 . 6418 . 6334
1.19	4752 4747 4729 4761 4610 4549 477 4396	.4208 4102 3989 3869 3744 3615 33481 33481 3366 3366	2783 2642 25642 2364 2229 2229 1967 1841 1662 1669	.1382 .1279 .1182 .1001 .0841 .0701 .0580 .0475
	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	- 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 4 4 6 6 6 4 4 6 6 6 6 6 6 6 6 6 6	22.22.22.22.22.22.22.22.22.22.22.22.22.

A4 OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA ($\sigma_{
m d}$) = 40% WR

WEAPON RADIUS/CEPa (WR/CEPa)

2.69	. 9966	.0028	. 9916	9000.	. 0004	. 6663	. 9992	. 000	. 0001	. 9991	. 0000	. 9999	. 0000	. 6666	0000	. 0000
2.50	.0051	. 0029	. 0017	. 0000	. 0004	. 0003	. 0002	0000	. 0001	0000	. 0000	0000	. 6666	9999	9999	. 0000
2.40	. 6676	. 6636	. 9913	. 9998	. 9995	. 00003	. 0002	1 000	. 000	1000	. 0000	. 0000	. 6666	. 0000	9999	. 0000
2.30	.0073	0031	.0018	. 0000	. 0005	. 0003	. 0002	0001	1000	0001	. 0000	. 6666	. 0000	9999	9999	. 0000
2.20	.0076	. 0023	. 6619	. 0000	. 0005	. 0003	. 6662	. 6661	. 0001	. 6661	9999	. 0000	. 0000	. 6666	9999	. 0000
2.10	.0080	. 0035	. 6626 . 6615 . 6612	. 9999	. 0005	. 0003	. 0002	.0001	. 0001	. 0001	9999	. 6666	. 0000	. 0000	9999	. 0000
2.00	. 9985	. 9937	. 0021 . 0016 . 0012	2000	. 0005	. 0003	. 0003	0000	. 0001	. 6661	0000	. 0000	. 0000	. 6666	. 0000	. 0000
1.96	. 6969	. 0039	. 6622	. 00008	. 6666	. 0003	. 0003	. 0002	1000	. 6661	. 0000	. 6666	. 0000	. 6666	. 0000	. 0000
1.80	9998	6642	. 0024 . 0018 . 0014	. 6668	9000	6004	9993	0002	1000	1000	1000	0000	9999	0000	0000	0000
1.70	1800	9946	0027 0020 0015	999	5000	9994	9993	9992	1000	1000	1000	0000	9999	9000	9999	9999
1.60	9699	0052	. 0030	.0013	. 0000	0004	. 0003	0000	1000	9001	1000	0000	. 0000	9999	0000	0000
1.50	.0134	0059	. 0034 . 0026 . 0020	.0015	9999	9995	. 0003	9992	1000	0001	10001	. 0001	. 0000	9999	9000	. 0000
1.40	.0117	.0069	. 6646	.0018	9000	9000	. 9995	. 6663	. 0002	1000	1000	1 999	9999			. 9999
1.30	5210.	. 9982	. 6648	.0021	.0012	2000	9999	.0003	. 0002	0000	1000	. 6661	1000	. 6666	. 0000	. 0000
1.20	0210	0100	. 9966	.0027	9016	6000	. 0000	. 6664	. 0002	9992	1000	1 999	. 9991	1000	. 0000	. 9999
1.10	.0251	0125	.0060	. 0036	.0021	. 0013	9000	9000	. 0003	. 6663	. 0002	. 0001	1000	. 6661	1000	9999
		-	3.20				3.96				4.50	4.60	4.70	4.80	4.40	8

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 40\%$ WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

										,							
	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	2.00	5.29	5.40	2.69	
	8951	9110	9325	9457	6369	9647	9715	6926	9812	9847	9875	9898	2166	9931	9944	. 9953	
	8933	9141	2086	9440	9547	9632	0026	9755	9800	9836	9865	9888	2066	9923	9866	2466	
	8880	9888	9255	9390	9448	9286	2652	47.14	1926	9899	9831	. 9857	6286	2686	.9912	.9924	
10	8792	9996	9168	9305	9416	2026	9582	.9643	9694	. 9737	. 9772	. 9802	.9828	.9849	2986	. 9883	
	8669	8876	9643	9184	9998	9393	9473	9539	9595	9642	9683	8126	9747	8226	2626	9815	
25	8511	8716	.8886	9026	9144	. 9243	9327	9398	9459	9512	. 9557	2626	.9631	.9662	6896	9712	
	.8319	. 8521	8690	. 8831	.8951	. 9053	9141	.9216	. 9282	.9339	.9389	.9433	.9472	.9507	.9539	. 9566	
	.8093	.8292	8458	8598	6128	. 8822	. 8912	8990	. 9059	.9120	4216.	. 9221	.9264	.9303	.9337	. 9369	
	.7839	. 8629	8190	8328	. 8446	.8549	.8640	. 8719	. 8789	. 8851	2068	.8957	.9002	. 9642	6206	.9113	
10	.7554	.7735	.7888	.8621	.8135	.8236	.8324	.8402	.8471	. 8533	.8589	.8639	.8684	.8725	.8762	9629	
			-			-	-		00.00		0000	0,00			1000	91.70	
90	5427	7167	9000	9897	9922	. 1883	2962	1400.	99199	3919	9779	0070	1160.	1000	1000	0110	
	2112	6777	6143	. 7935	0407	. (132	4187	1889	0067	. 8008	6699	0010	0140	2010	1220	0500	
	8269	. 7135	6972	. 7386	7842	9202	. 7655	\$777	9827	2487	2697	1000	1000	2001	2000	2001	
	. 6840	1669	. 7120	. 7232	. 7329	.7415	0642	2002	2192	6292	8122	1922.	0082	. 7835	1982	2692	
	6699	. 6844	2969	4202	. 7168	. 7249	. 7321	. 7385	. 7442	. 7493	. 7538	6202	9192	9697	. 1680	9933	
	. 6536	. 6694	. 6811	. 6913	.7992	6202	.7148	. 7208	7262	0182	. 7353	2682	. 7426	8642	. 7486	7912	
	.6410	. 6541	. 6652	6429	. 6833	9069	0269	. 7027	8202	.7123	.7163	6612.	. 7232	. 7261	7288	.7312	
	. 6262	. 6386	. 6491	. 6582	1999	.6229	0629	. 6843	. 6890	. 6932	6969	. 7992	. 7032	. 7969	7.084	9812.	
	.6112	. 6228	. 6327	.6412	.6486	.6529	9099	. 6655	6699.	2829	.6772	. 6802	. 6830	. 6855	2289	. 6897	
	. 5961	6909	.6162	. 6241	. 6369	.6368	.6450	. 6465	. 6505	. 6540	. 6571	6629	. 6624	. 6647	2999.	. 6685	
	. 5868	. 2969	.5995	. 6968	.6130	. 6185	. 6232	. 6273	. 6309	. 6341	. 6369	. 6394	.6417	.6437	. 6455	1249.	
	.5654	.5748	.5826	.5893	.5951	. 6999	.6042	. 6680	.6112	6140	.6166	.6188	.6208	.6225	.6241	.6255	
	5500	.5585	5657	5718	5770	5814	.5852	. 5885	.5914	.5939	.5961	.5981	. 5998	.6013	.6027	.6939	
	. 5345	.5423	.5488	.5543	. 5589	.5628	.5662	.5691	.5716	.5738	.5757	+225	.5788	.5801	.5813	.5823	
	.5190	.5260	.5319	. 5367	.5468	.5443	.5472	2649	.5519	.5537	. 5553	. 5567	6299	. 5596	.5699	.5698	
	.5035	. 5098	.5150	.5193	.5228	.5258	.5283	.5364	.5322	.5337	.5351	.5362	.5372	.5381	.5388	.5395	
	.4881	.4936	. 4982	. 5019	.5049	.5074	.5095	.5112	.5127	.5139	.5150	.5159	.5166	.5173	6215	.5184	
	. 4727	9224	4814	. 4846	. 4871	. 4892	.4968	.4922	. 4934	. 4943	. 4951	. 4958	.4963	.4968	.4972	9264	
	4224	.4616	.4649	4294	.4695	. 4711	. 4724	.4735	. 4743	.4750	.4755	. 4260	.4763	. 4266	6924	.4771	
_	.4423	.4458	. 4484	. 4505	. 4521	.4533	.4542	.4550	. 4555	4559	. 4563	. 4565	. 4567	.4568	.4569	.4570	
	.4273	.4301	. 4322	.4338	.4349	.4357	.4363	.4368	.4371	.4372	4324	4324	4324	4374	.4374	. 4373	
55	. 4123	.4147	.4162	.4173	.4186	. 4185	.4188	.4189	.4189	.4189	. 4188	.4187	.4186	.4184	.4183	.4181	
	.3979	.3995	.4005	. 4011	4014	.4016	. 4015	4014	.4012	.4010	. 4997	. 4995	. 4002	6668.	2668.	3994	
	.3835	.3845	.3850	.3852	.3852	.3850	.3847	.3843	.3839	.3835	.3831	.3827	.3823	.3819	.3815	.3812	
	.3693	.3698	.3698	.3696	.3693	.3688	.3682	.3676	.3671	.3665	.3659	.3654	.3649	.3644	.3640	.3635	
	.3554	.3553	.3550	.3544	.3537	.3530	.3522	.3514	.3567	.3499	.3493	.3486	.3480	.3474	.3469	3464	
	3417	.3412	.3494	.3395	.3385	.3376	.3366	.3356	.3347	.3339	.3331	.3324	. 3317	.3316	.3364	3299	
	.3283	. 3274	.3262	.3250	.3238	.3226	.3214	.3203	.3193	.3183	.3174	.3166	.3159	.3152	.3145	.3139	
	2152	.3139	.3124	.3169	.3094	.3080	2906	.3955	.3643	.3033	.3023	.3014	3000	5666	2665	.2982	
-	000000	2008	. 2989	.2972	.2955	.2939	. 2925	. 2911	. 2899	. 2888	. 2877	. 2868	. 2859	2851	2844	.2837	
10	. 2966	.2879	.2859	. 2839	. 2826	.2803	.2787	.2773	. 2760	242	.2737	. 2727	2718	5200	27.02	.2695	
	.2778	.2755	. 2732	. 2710	.2690	.2671	.2654	. 2639	.2625	. 2613	. 2601	. 2591	. 2582	. 2573	.2565	.2558	

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA ($\sigma_{ m d}$) = 40% WR

	9:	22	7 0	10	0 0	0 :	4	4	90	9.	34		13	90	0	000	21	21	22	4	0	1	36	53	20			0	92	23	2	36	20	0	22	98	-		91	22	66	22			+	93	93	35	25	90
	5.69	. 2427	23.	2000	101	17.	. 185	17:	. 166	157	145		141	13	101		111	. 11	10:	966	000	000	. 900	. 9663	. 049	000	. 63	. 02	. 620	. 01.	. 61	. 008	.00	.00	90	00	0021		00	00	000	900	00		. 00	. 00	. 00	. 0002	. 99	. 00
	5.40	. 2435	5383	2007	2000	. 1903	. 1861	11261	. 1667	1577	1491		1409	1335	10201	00011	. 1109	. 1123	. 1969	1991	9045	0000	2690	2996	.0498	200	. 9361	. 9277	. 9296	. 0154	.0115	. 9987	. 0065	999	9937	AGOR	1000		9100	.0012	00100	9997	9000		. 0004	. 6663	. 6663	. 0002	2000	. 0000
	5.20	.2442	2317	2000	. 2000	. 1960	. 1869	6921	1674	1584	1498		1416	1330	1961	20071	6611.	1129	. 1966	1007	9051	1000	, 699 .	1290.	.0201		. 6364	. 6226	. 0208	. 0155	9116	. 9987	9900	999	9937	8600	0000		. 0016	. 6613	9010	2000	9000	0000	. 0004	. 6663	. 6663	. 6662	2000	. 0000
	2.00	. 2451	. 2326	2000	7600	2061	8281	. 1778	. 1683	1599	1506		1424	1347	1020	0000	1203	.1136	. 1073	1013	0000	10000	. 6363	9290.	. 0202	2000	. 9366	. 0281	. 0210	. 0157	2110.	. 0088	9900	9999	9899	0000	0000		2100	6013	9919	9997	9000	0000	. 0004	. 6663	. 6663	. 0002	. 0002	. 0000
	4.80	.2461	.2336	0177	1000	2661.	. 1887	. 1787	. 1692	1602	100	0101.	1433	1255	1001	1071	11711	1144	1981	1691	000	1000	0160	. 0681	. 0200	0000	. 9389	. 0283	. 6211	. 0158	. 0118	6899	2900	9939	6638	0000	6600		2100	60013	9919	9997	9000	0000	. 0004	. 6663	. 6663	. 0002	. 0002	0000
	4.60	.2471	. 2346	2777	7777	5002	. 1898	8621	1703	1619	15051	0701.	1443	1365	0001	0000	1220	. 1153	1989	1099	0000	2000	2160.	. 9687	.0514	0000	. 9383	. 0286	. 0213	.0160	6110	0600	2900	9951	0038	0000	6600	1	2100	6013	0010	9998	9000	0000	. 0000	. 6663	. 0003	. 0002	. 0002	0000
EP _a)	4.40	.2483	.2358	. 2233	6212	6102.	1916	. 1810	1715	1694	1527		1454	1976		1001	1230	. 1163	6601	1038	0000	9069	. 8926	. 0694	. 0519	1000	. 9387	. 0289	. 0216	.0161	. 6121	1600	9968	0051	0030	0000	6600	-	2100	6013	9010	9999	9000	2000	. 0000	. 0004	. 6663	. 0005	. 0002	0000
RADIUS/CEP _a (WR/CEP _a	4.20	.2496	. 2372	7077	.2136	. 2029	. 1924	. 1824	1728	1637	0001	. 1000	1467	1988	0.01	0101.	1247	4211.	61119	1940	1000	1660.	. 6936	. 0202	. 0525	0000	. 0392	. 0293	. 0219	.0164	. 0122	. 6692	6900	6666	9639	0000	6693	2	2100	6613	9010	9999	9000	0000	. 0000	. 0004	. 0003	. 0002	. 0002	0000
IS/CEP	4.99	.2510	. 2387	22568	.2193	. 2044	. 1939	. 1839	1743	1650	1001	. 1000	1481	1400	1000	1020	. 1299	. 1187	. 1122	1961	1001	caal.	2460	1120.	. 0533	0000	8680	. 0297	. 0222	.0166	. 6124	. 0093	9200	9953	0000	0000	9000	0700.	2100	6013	0100	0000	9000	9000	. 0005	. 6664	. 6663	. 0002	. 0002	0000
RADIL	3.80	.2526	. 2403	5220	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1907	1957	. 1856	1921	1669	1581	1001	1498	1418	1040	01010	1771	. 1202	. 1137	1075	1016	01010	. 6966	. 0722	. 0541		. 6465	. 6362	. 6226	6910	. 0126	. 0095	1200	9054	9041	9931	6000		8100	9014	9100	9999	9000	0000	. 9995	. 0004	. 0003	. 0002	. 0002	. 0000
WEAPON	3.60	. 2544	. 2421	. 2363	9617	. 2081	9261	. 1876	1780	1688	1601	1001.	1517	1497	1001	1001	1288	. 1219	.1154	1001	1000	2001.	9260.	. 0735	.0551	0.,0	. 0413	. 0308	. 0231	. 0172	.0129	2600	6673	9955	0041	0031	4000		.0018	4100	0011	9999	9000	0000	. 0000	. 9994	. 0003	. 0005	. 0002	. 9999
3	3.40	.2564	2445	4797	2122	. 2103	6661.	1898	1803	1211	16091	0.001.	1539	1450	0000	2001	1388	. 1240	. 1173	1110	0101	0001	4660.	0220	. 0563	00.0	7750	. 0316	. 0236	2210	. 0132	6666	9975	9999	9642	0000	6004		. 0018	4100	1100	0000	9000	0000	. 9999	. 6664	. 6663	. 0002	. 0002	. 6666
	3.20	. 2585	. 2464	2348	2236	2128	. 2024	1924	1828	1796	1648	0101.	1564	1484	101	1400	. 1333	. 1263	9611	1133	020	7,01.	. 1615	2920	2250	0000	. 6433	. 0324	. 0243	.0182	.0136	. 0102	0077	9000	9644	0000	9000		6100	4100	0011	0000	0000	2000	. 00005	. 0004	. 0003	. 0002	. 0002	0000
	3.66	.2608	. 2489	4282	5555	.2136	. 2052	. 1953	1857	1266	0011	9,01.	1593	1519	0101.	0041.	. 1361	1291	1224	1130	0000	0661	1040	6820	. 0295		. 0447	. 0335	. 0251	.0188	.0141	9010	9070	9969	6645	2000	9000	0	9920	0015	0011	0000		2000.	. 0000	. 0004	. 6663	. 0002	. 0002	0000
	2.80	.2634	. 2516	. 2403	2293	.2185	. 2085	1986	1861	1700	1711	1111	1697	1546	0401	1405	. 1395	1323	1256	1101		1129	0201	. 9814	. 9616		. 0464	. 0349	. 0262	9610	. 0147	0110	6683	9969	9947	4000	0000		9299	9199	00010	0000	6000	2000	. 0000	. 0004	. 6663	. 0003	. 0002	. 0000
	5.69	.2660	. 2545	. 2434	. 2326	7777	.2120	.2023	1929	1838	1750	96.11.	1666	2001	2001	0001	. 1433	. 1362	1294	1998	0771	1100	1106	. 0846	. 9643		. 8486	. 0366	. 0275	. 9296	. 0155	9116	9987	9996	9940	2000	9699	0700.	1000	90916	0100	1000	9100	2000	9000	. 0004	. 6663	. 6663	. 0002	9999
		1.14	1.16	1.18	1.20	1.22	1.24	1.26	1 28	000	1 22	70.1	1 34	1 96	1.00	1.30	1.40	1.42	1.44	1 46		0+.	1.50	1.60	1.70		7	٠.	Τ.		-						2000	7	2.90	3 00	3 10	000	9.50	3.30	3.40	3.50	3.69	3.79	3.80	8

*

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 40\% \, \mathrm{WR}$

					M	WEAPON		RADIUS/CEP,	(WR/CEP3)	EP ₃)						
	6.90	6.50	2.99	7.50	8.00	8.50	9.00	9.20		10.50	11.00	11.50	12.00	12.59	13.66	13.50
00.0	. 3968	9866	2866	.9992	2666.	9666.	8666	8666	6666	6666	6666	6666	6666	6666	6666	0000
6.63	. 9962	6266	4866	6866	.9992	6666	9666	2666	8666	6666	6666	6666	6666	6666	6666	6666
9. 10	4466	0966	.9972	6266	. 9985	8866	1666	6666	6666.	9666	2666	2666	8666	8666	9998	6666
6.13	8966	9866	.9946	. 9958	2966	6266	8266	.9982	.9985	2866	6866	1666	. 9992	6663	4666	2000
0.20	. 9847	2286	0066	2166	9866	. 9941	.9949	.9956	1966	9966	6966	2266	5266	2266	9479	9981
6.25	.9752	.9792	.9822	.9846	.9865	.9880	. 9892	. 9903	9912	6166	9925	0931	9635	0000	9043	9046
6.39	4196.	.9662	9926	.9730	.9755	9226	6626	9808	9850	9831	9840	9848	9855	9861	9866	0871
6.35	. 9423	.9478	.9522	.9559	.9589	9614	9636	9654	0990	0683	2090	0705	0217	0200	0220	1020
0.40	1216.	.9231	.9280	. 9320	9354	9382	9406	9497	9445	9461	0474	0406	0402	05050		0010
6.42	. 8855	2168	2968	6006	. 9844	6206	9666	.9150	. 9139	. 9155	9116	. 9182	. 9193	. 9203	9212	9220
0.50	.8477	.8536	.8585	.8625	.8659	.8688	.8712	.8733	.8751	.8767	8781	8793	RRAG	8813	1688	9688
0.52	. 8369	2988	.8414	.8453	.8486	.8513	.8537	.8557	.8575	8590	8603	8615	8625	8634	8642	8650
9.54	.8132	.8188	. 8233	.8271	.8302	.8329	. 8351	.8370	8387	8402	8414	8425	8435	8444	8450	8450
9.26	. 7948	.8001	.8044	6208	6918	.8134	.8156	.8174	.8189	8203	8215	8226	8235	8243	8056	8057
6.58	9222	9082	.7846	. 7880	8062	.7931	.7951	. 7968	. 7983	9662	8007	8017	8005	8033	8040	8046
0.60	.7558	7664	.7642	.7673	6692	.7721	.7739	7755	7769	7780	2790	2700	7807	7814	7001	2005
0.62	. 7354	2682	.7432	.7460	.7484	.7504	7521	7535	7547	7558	7567	7576	1200	7500	1007	1,020
9.64	.7145	.7184	.7216	.7242	.7264	7282	7997	7310	7301	7336	7930	7346	1000	1000	2050	2000
9.66	.6932	. 6968	9669	7020	7639	7055	7060	7080	7000	2000	7100	1010	10000	2.00	2000	9987
6.68	9129	.6748	.6774	4629	.6811	.6826	6837	6847	6856	6864	6870	6876	6881	5003	2713	6000
02.0	.6498	.6526	.6549	. 6567	. 6582	.6594	.6604	6613	6690	6697	6633	6637	. 6641	. 0000	6649	2600
											1000.	.000.	1100.	0400.	0100.	1000.
0.72	6229	6363	6393	6338	6351	1969	0269	*****	,000	0000	.000	0000				
0 74	6969	6686	9009	0000	1000	1000	9000	1996	. 5384	6889	. 6394	. 6398	. 6401	. 6404	. 6407	6466
9. 76	5846	5857	5871	1000	0000	5002	20100	740	2619.	1019	. 6155	.6158	.6161	.6164	9919	.6168
9.78	5622	5636	5646	26.55	1999	5665	50400	.0760	2160.	0160.	9160	. 5921	. 5923	. 5925	. 5927	. 5928
0.80	5406	5416	5424	5431	5436	5400	5443	. 2000	9000	19981	.0003	. 5685	.5687	. 5688	. 5689	1699
6.82	2010	2100	2000	2000	0105	2000	2000	0440	1440.	6446	.5451	.5452	. 5453	. 5454	. 5455	.5456
6.84	4981	4986	4989	4000	4004	4005	4006	6000	9220	1220	2222	. 5223	. 5224	. 5224	. 5225	. 5225
9.86	4774	4776	4777	4778	4770	4770	2770	1110	100	9664.	0664	8664	6666	4664	6664	6664
88.0	. 4571	. 4571	4570	4569	4569	4568	4567	4566	4566	4566	4566	8774.	8274	8224	4778	. 4778
06.0	. 4372	.4370	. 4368	.4366	4364	4362	4361	4359	4358	4357	4956	1004	4000	. 4000	. 4003	7004
6 92	.4178	4114	0214	.4167	.4164	.4162	.4160	.4158	.4156	.4155	.4153	.4152	.4151	.4150	4149	.4148
	0000	0000	9													
20.00	. 3709	. 0763	. 3363	4766	. 3971	3968	. 3962	.3965	.3960	.3958	. 3957	. 3955	.3954	.3953	3952	3951
96.0	.3866	6628	.3793	3787	.3783	6228	9228	8228	1228.	6928	.3767	.3765	.3764	3762	3761	3760
6.98	.3628	.3619	.3613	2098	.3602	3597	.3594	.3590	.3588	.3585	.3583	.3581	.3580	3578	3577	3576
1.00	3456	.3446	.3438	.3432	.3426	.3422	.3418	.3414	.3411	.3409	.3406	.3464	3402	3401	3300	3398
1.02	.3289	.3279	.3271	.3263	. 3257	.3252	.3248	.3244	.3241	.3238	.3236	.3234	3232	3230	3559	3002
1.04	.3129	.3118	.3109	.3101	.3095	.3090	.3985	.3081	.3078	3975	.3072	3070	3968	3066	3065	3063
1.06	. 2974	. 2963	. 2953	. 2945	. 2939	.2933	. 2929	. 2924	.2921	. 2918	.2915	. 2913	2911	2909	2908	2996
99.	. 2826	2814	. 2894	.2796	.2789	.2783	.2778	.2774	1222	. 2768	. 2765	.2762	. 2760	.2759	2757	.2755
1.10	2003	.2567	.2661	2692	. 2645	. 2639	. 2635	. 2630	. 2627	. 2624	.2621	. 2618	.2616	.2614	.2613	.2611
	04.07	5007	. 2929	. 2519	. 2598	. 2502	. 2497	. 2493	. 5489	. 2486	2483	.2481	.2429	. 2477	.2415	.2474

1385 1232 1163 1193 1937 1937 695 665 6485 2277 22157 2042 1933 1829 1736 1636 1747 1462 2289 2289 2170 2055 1946 1742 1742 1648 1558

92644 9197 9197 9963 9962 9962 9962 9962

9255 9255 9148 9111 9962 9962 9962

0267 0199 0119 00084 00063 00047 00027

9269 9269 9159 9112 9984 9963 9963

9272 9272 9152 9174 9985 9985 9985 9985 9985 9985

0260 0194 0194 0198 0108 00081 00046 00026 000012 000014 000012 000013

99912 99913 99913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 9999113 999913 999913 999913 999913 999913 999913 999913 999913 99991110 99999110 9999110 9999110 9999110 9999110 9999110 9999110 9999110 99

99912 99992 99993 99993 99993 99993

99919 999919 999919 999919 999919 999919

99915 99997 99993 99993 99993 99993

8463438-83

2217 2697 1983 1875 1772 1675 1682 1494 1411 1269 1126 1058 0994 0688 0624 0624

2222 2162 2162 1988 1886 1777 1679 1587 1498

2224 2224 22104 1990 1882 1779 1588 1588 1500

2226 2107 1993 1884 1781 1683 1591 1419

2229 2109 1995 1887 1784 1686 11593 1421

2232 2112 2112 11998 11890 1787 1596 1596

WR

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 40\%$

/CEP_a) 10.50

10.

1257 11186 1119 1119 1956 9939 9886 9622 9622 9463

1261 11261 1123 11659 6999 6989 6625 6625

1264 1193 1196 1062 1062 0845 0841 0627 0466

1267 11957 11964 1064 1064 0947 08893 0628

9257 9192 9193 9969 9961 9965 9965 9966

9257 9192 9193 9197 9981 9986 9986 9986

0258 01958 0194 0108 0081 00046 00026 00026

0258 0193 0194 0108 0081 00661 00661 00026

9259 9193 9198 9198 9961 9961 9926

0259 0193 0194 0108 0061 0066 0065 00026

A4

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 40% WR

						WEAPO	NRAD	WEAPON RADIUS/CEP _a (WR)	a (WR/	(CEP _a)						P
	13.66	13.56	14.90	14.50	15.60	15.50	16.99	16.59	12.00	17.50	18.00	18.50	19.00	19.50	20.00	8
0.00	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	0000
6.20	6266	1866	. 9982	. 9984	. 9985	9866	2866	2866	. 9988	6866	6866	9666	9666	1666	1666	2000
7.7	. 9943	. 9946	6466	1966	.9953	. 9955	2066	6666	9966	1966	.9962	.9964	.9965	. 9965	9966	9981
-	9986	1 286 .	. 9875	6286	. 9883	. 9886	6886	1686	.9894	9886	8686	9966	1066	.9903	9904	9932
-	.9820	. 9825	.9830	. 9835	. 9839	.9842	.9846	. 9849	.9851	.9854	.9856	.9858	. 9860	.9862	9864	9866
7	6926	6926	4226	6226	.9784	.9788	1626	2626	8626	1986	.9803	9866	. 9808	.9810	.9812	9848
-	. 9693	9926	9026	1126	9126	.9721	. 9725	.9728	.9732	.9735	.9738	9740	. 9743	9745	9747	9788
70	1196	8196	. 9624	.9630	.9635	.9640	.9645	.9649	.9652	.9656	.9659	. 9661	.9664	9666	6996	9713
	.9515	.9522	.9529	.9535	.9541	.9546	.9550	.9554	.9558	.9562	. 9565	. 9568	1226	. 9573	9226	0696
1	6404	.9412	6146	.9425	.9431	.9436	. 9441	. 9445	.9449	. 9453	.9456	.9459	.9462	. 9465	.9467	.9515
	9280	9288	9295	9301	9307	6119	9317	1680	2000	9229	0223	9000	0000	0.041	0044	0000
	9141	9149	9136	9162	9168	9173	9178	0.83	0.187	0010	0000	0.000	0000	10000	++000	5666
	8888	8996	9993	6006	9915	9020	9000	9699	9633	9837	0040	0049	0000	0000	0026	+076
0.50	.8821	. 8829	.8836	.8842	8848	8853	8857	8862	8865	8869	8879	8875	8228	6400	1000	6606
	.8642	.8650	8656	8662	8668	8672	8677	8681	86.85	86.88	8601	8604	8607	0000	00000	. 0930
	.8452	8459	8465	. B47.1	.8476	8480	8484	84BB	8440	8495	8408	8501	8503	8506	100	0110
	.8250	. 8257	8263	8268	8273	8977	ROBI	8085	ROBB	8301	8008	9000	0000	0000	00000	90000
	8640	8046	8031	8056	Raca	8964	8968	8071	8074	2000	0000	0000	6650	1950	. 03903	6342
	. 7821	7826	7831	7836	7840	7843	7847	7850	7850	7855	7000	2000	2000	2000	2000	10000
	.7595	. 7699	7664	2608	2612	7615	7618	7691	7694	26.96	26.38	2690	2001	14000	76.05	255
	.7363	.7368	. 7372	. 7375	6282	.7382	.7384	7387	.7389	7391	7393	7395	2396	7398	7399	7496
,-																
	7197	2121	7125	4138	7141	2144	21.16	2.40	0				-	-	-	-
	6889	6,000	6005	0003	6000	6000	2000	0+13.	0013	2017	+613.	6617	1013	. 7158	6212.	.7182
	6648	1999	6654	6656	8658	6669	0060	1060	9069	9169	1160.	.6913	4160.	6915	6916	. 6936
	6407	6469	6419	6413	6415	6417	2000	. 00000	00000	0000	2000.	9999	0200	9299	1299	. 6688
	9919	6169	6170	6171	61.10	11.0	0110	0240	111	7710	0740	+7+0	. 6429	. 6425	. 6426	6440
	2652	5428	5030	5031	2033	2033	2004	2002	2000	0000	2002	1000	9000	1819.	. 6182	.6193
	5689	2601	2640	2642	2693	2694	2603	26.03	5696	2606	2000	1000	2000	2000	.0939	1460
9.80	.5455	.5456	5457	5457	5458	5458	5459	2430	5460	5460	5460	5460	5461	5461	0600	4070
	. 5225	. 5225	.5226	.5226	.5226	. 5227	5227	5227	5227	5997	5998	599B	5008	5008	2008	2000
	6664	6664	6664	6664	6664	. 5000	. 5000	.5000	.5000	5000	5000	2000	2000	2000	2000	2000
-	.4778	. 4778	8224	. 4778	.4778	. 4777	. 4777	.4777	. 4777	2224	2224	7224	.4777	. 4777	. 4777	. 4775
00 0	0737	****	0,72	. 72.												
00.00	5000	7004	7004	1904.	1904	.4261	. 4561	. 4560	. 4566	. 4260	. 4560	. 4560	. 4560	. 4559	4559	.4556
00.00	. 4393	7004	. 4352	.4331	. 4331	. 4320	.4326	. 4350	. 4349	. 4349	4349	.4348	.4348	.4348	.4348	4344
0.92	414	4148	. 4148	.4147	.4146	4146	.4145	.4145	.4145	++++	4144	4144	.4143	.4143	.4143	.4138
6.04	.3952	.3951	.3950	3949	.3949	.3948	. 3947	3942	.3946	.3946	.3945	.3945	.3945	.3944	.3944	3938
96.0	.3761	.3760	.3759	.3758	.3757	2928	.3756	.3755	.3755	.3754	.3754	.3753	.3753	.3753	.3752	.3746
6.93	.3577	.3576	.3575	.3574	. 3573	.3572	.3571	.3571	.3220	.3569	.3569	.3568	.3568	.3568	.3567	.3560
1.00	.3399	.3398	.3397	.3396	. 3395	.3394	. 3393	. 3393	.3392	. 3391	.3391	.3390	.3390	.3390	.3389	.3381
. 62	3229	. 3227	. 30226	. 3225	. 3224	. 3223	.3222	. 3222	.3221	.3220	.3220	.3219	.3219	.3218	.3218	.3210
+0.1	.3065	.3963	.3062	.3061	.3969	.3059	.3058	.3057	.3022	.3056	.3055	.3055	.3054	.3054	.3054	.3045
1.00	. 2908	. 2906	. 2905	. 2904	. 2903	. 2902	. 2901	. 2900	.2899	.2899	.2898	. 2897	. 2897	.2896	. 2896	.2887

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 40\%$ WR

P	3	.2736	. 2592	. 2454	.2323	.2198	.2078	. 1965	. 1857	1755	. 1658	2921	17300	0141	. 1393	. 1317	. 1243	. 1172	1106	1643	9984	8000	. 9875		. 0825	. 0778	. 6733	1690	. 9651	. 9614	6220	. 0545	. 0514	. 0485	. 0457	. 0430	. 9406	. 0382	0361	0340	9339	0000	2000	6970	0020	. 6253	. 0000
	20.00	.2745	.2601	. 2463	. 2332	. 5506	. 2087	. 1973	. 1865	. 1763	. 1665	1570	1406	1400	7941	1324	. 1249	6211.	. 1112	1649	6989	0033	. 9880		. 6836	. 6782	. 6737	. 6695	. 9655	. 9618	. 0582	. 0549	. 0517	.0488	.0460	. 0433	. 0408	. 0385	.0363	0340	0000	4000	1000	9200	9779	. 0255	. 9999
	19.50	.2746	.2601	. 2464	. 2332	. 2207	. 2087	1974	1866	. 1763	. 1666	1570	1406	1400	5041	1324	. 1250	6211.	.1112	1049	9669	0033	. 0880		. 6836	. 0782	.0738	. 0695	. 0656	. 0618	. 0582	. 0549	. 0518	.0488	. 0460	. 0433	. 0408	6385	6363	6343	6353	0304	1000	0200	0000	. 0255	. 0000
	19.60	.2746	.2602	. 2464	. 2333	. 2207	.2088	4261.	. 1866	1764	9991.	1574	1406	1400	. 1403	1324	. 1250	6211.	. 1113	1050	0000	0034	. 9889		. 6836	. 6783	. 0738	9690	. 9656	.0618	. 0583	. 6246	. 0518	. 0488	. 0460	.0434	. 0409	. 0385	0363	6349	0333	0204	1000	0200	9370	. 0255	0000
	18.50	.2747	.2602	. 2465	. 2333	. 2208	. 2088	. 1975	1867	1764	1991.	1574	1001	140	1404	. 1325	. 1250	. 1180	. 1113	1959	0000	0034	. 0881		. 6836	. 0783	. 0738	9690	. 0656	. 9618	. 0583	. 0549	. 0518	. 0488	. 0460	. 0434	. 6469	. 6385	0363	6349	0353	0000	1000	9550	9779	. 0255	. 0000
	18.00	.2747	. 2603	. 2465	. 2334	. 5508	. 2089	2261	1867	1765	. 1667	1678	. 10.0	7041	5041	. 1325	. 1251	. 1180	. 1113	1050	0001	0034	. 0881		. 6831	.0783	.0738	9690	.0656	6190.	. 0583	. 0550	. 0518	.0488	. 0460	. 0434	.0409	. 0385	. 0363	0343	6333	0000	1000	2020.	1000	. 6225	. 0000
CEP _a)	17.50	.2748	. 2694	. 2466	. 2334	. 2209	. 2090	9261	1868	1765	. 1668	1675	1400	1400	. 1405	. 1326	. 1251	. 1181	1114	1651	1000	9035	0881		. 0831	. 0784	. 0739	9690	. 0657	. 0619	. 0583	. 0550	. 0518	.0489	. 0461	.0434	. 0409	0386	.0364	6343	64333	2000	2000	. 628	1100	. 0222	. 0000
WEAPON RADIUS/CEPa (WR/CEPa	17.00	.2748	. 2694	. 2466	. 2335	. 2210	. 2090	2261	1869	1766	. 1668	72.01	0001	00+1	. 1405	. 1326	. 1252	.1181	1114	1651	6000	4000	. 0882		. 0831	. 0784	. 0739	2690	. 0657	6190	. 0584	. 0550	. 0519	. 0489	. 0461	. 0434	. 0409	0386	0364	0343	6333	2000	2000	. 028	1000	. 6223	0000
US/CEF	16.59	.2749	. 2605	. 2467	. 2336	. 2210	. 2091	2261	1869	1767	. 1669		1007	. 1403	1400	. 1327	. 1252	. 1182	. 1115	1050	6000	9000	0885		. 0832	. 0784	0420	2690	. 0657	. 0620	. 0584	. 0220	.0519	.0489	.0461	.0435	0410	9386	0364	0343	0333	2000	0000	0200	1970	. 0256	. 0000
N RADI	16.00	.2750	.2606	. 2468	. 2337	. 2211	. 2092	8261	. 1870	1767	0291	1577	1400	0641.	0041	. 1328	. 1253	. 1182	. 1115	1052	6993	9600	. 0883		. 0832	. 0785	0540	8699	. 0658	.0620	. 0584	. 0551	. 0519	. 0489	. 0461	. 0435	.0410	. 0386	. 6364	0343	6304	9305	0000	0200	1100	. 9256	. 0000
VEAPOR	15.50	.2751	2602	. 2469	.2337	. 2212	. 2093	6261	1871	1768	. 1671	1570	1400	1001	1000	. 1328	. 1254	. 1183	. 11116	1053	6993	0032	. 0883	1	. 0833	. 0785	. 0740	8690	. 0658	. 0620	. 0585	. 6551	. 0519	. 0440	. 0462	. 0435	.0410	. 0387	. 0364	6343	6324	0302	0000	0070	1 1 200	. 0256	. 0000
>	15.00	.2752	.2608	. 2420	. 2338	. 2213	. 2094	1980	. 1872	1769	. 1672	1870	1401	1441.	1400	. 1329	. 1254	. 1134	. 1117	1054	0994	0002	. 0884		. 0833	. 0786	1420.	. 0698	. 0658	.0621	. 0585	. 0552	. 0520	. 0490	. 0462	. 0435	.0410	. 0387	. 0365	6344	40304	2000	0000	0220	1270	. 0256	. 0000
	14.50	.2753	. 2609	. 2471	. 2340	. 2214	. 2095	1981	. 1873	1270	. 1673	1,800	1400	7641	6041	. 1330	. 1255	. 1184	. 1118	1954	6994	9638	. 0884		. 6834	9826	. 0741	6690	. 0659	. 0621	. 0586	. 0552	. 0520	. 0490	. 0462	.0436	. 0411	. 0387	. 9365	0344	0324	9000	0000	9229	1000	. 0256	0000
	14.00	.2754	.2610	2472	. 2341	. 2215	.2096	. 1982	1874	1221	1674	1501	1400	0111	01+1.	. 1331	. 1256	. 1185	. 1118	1055	6995	0030	. 0885	-	. 0835	2820	. 0742	0020	. 0639	. 0622	. 0586	. 0552	. 0521	. 6491	. 0463	.0436	. 0411	. 0387	. 0365	0344	6325	9306	0000	. 0203	0.000	. 6256	9999
	13.50	.2755	.2611	. 2474	. 2342	. 2217	. 2002.	. 1983	. 1875	1772	. 1675	1500	1404		11+11	. 1332	. 1257	. 1186	. 1119	1056	9660	0030	. 9896		. 6835	. 0788	. 0743	0020	. 9669	. 9622	. 0587	. 6223	. 0521	. 0491	. 0463	.6437	. 0411	. 6388	. 0366	0345	6305	9396	0000	. 0203	1000	. 0257	. 0000
	13.00	.2757	.2613	.2475	. 2344	.2218	. 2099	. 1985	1877	+221	9291	1500	1405	0.4.1	7141	. 1333	. 1258	. 1187	. 1120	1057	2660	0040	. 0887		. 9836	6820	. 0743	1020	.0661	. 0623	. 0587	. 0554	. 0522	. 6492	. 0464	. 6437	.0412	. 0388	. 9366	0345	.,325	2000	10000	. 0269	0100	. 6222	. 0000
		1.08	1.10	1.12	+1	1.16	1.18	1.20	1.22	1.24	1.26	1 38	000	00.1	7.07	1.34	1.36	1.38	1.40	1.42	1 44	1 46	1.48		1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.66	1.68	1.70	1.72	1.74	1.76	1.78	1.80	1 82	1 84	10.1	1.00	00.1	96.1	8

92889298

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 40% WR

		.0239	.0212	. 0189	1410.	6200	. 0060	. 9942	. 6634	. 0026	. 9929	. 0015	1100	6000	2000	. 0000
	29.99	. 0226	6214	0610	. 0142	. 9989	. 9969	. 0045	. 0034	. 0026	. 8628	. 9915	. 0012	6000	2000	. 9999
	19.50	. 0240	0214	0610	. 0142	. 0080	. 0060	. 0042	. 0034	. 0026	. 8828	. 0015	.0012	6000	2000	. 9999
	19.00	. 0240	0214	0610	.0142	. 0080	. 0006	. 0042	. 9934	. 0026	.0020	. 0015	. 0012	6000	2000	. 6666
	18.59	. 0240	. 0214	0610	. 0142	. 0080	. 0060	. 0045	. 8634	. 0026	. 0020	. 0015	. 0012	6000	2000	. 0000
	18.66	. 0241	0214	. 0190	. 0142	. 6686	. 0060	. 0042	. 6634	. 0026	.0020	. 0015	. 0012	6000	. 0007	. 6000
(CEPa)	17.50	. 9241	0214	0610	. 0142	. 9989	. 9969	. 9945	. 0034	. 0026	.0020	. 0015	. 0012	6000	2000	. 0000
a (WR/	17.00	. 0241	0214	. 0190	. 0142	. 0080	. 9969	. 0045	. 0034	. 0026	. 0020	. 0015	. 0012	6000	2000	. 9999
RADIUS/CEP	16.50	. 0241	0214	1610	. 0142	. 9989	. 9969	. 0045	.0034	. 0026	. 0020	. 0015	. 0012	6000	2000	0000
	16.00	. 0241	. 0214	1610	. 0142	. 0080	. 0000	. 0045	.0034	. 0026	. 0020	. 0015	. 0012	6000	2000.	0000
VEAPON	15.50	.0241	. 0215	1610.	. 0143	. 0080	. 0060	. 0042	. 0034	. 0026	. 0020	. 0015	. 0012	6000	2000	. 8688
	15.00	. 0241	. 0215	. 0191	. 0143	. 0080	. 8868	. 0046	. 0034	. 0026	. 0020	. 0015	. 6612	6000	2000	. 0000
	14.50	. 0242	. 0213	.0191	. 0143	. 0080	. 8868	. 0046	. 0034	. 0026	. 0020	. 0015	. 0012	6000	2000	. 6666
	14.80	. 0242	. 0215	1610	. 0143	. 0080	. 8868	. 0046	. 0034	. 0026	. 0020	. 0015	. 0012	6000	2000	. 6000
	13.50	. 0242	. 0203	1610.	. 0143	. 0080	. 8868	. 9946	. 0035	. 0026	. 8626	. 6615	. 0012	6000	2000	. 0000
	13.66	. 0242	. 0216	.0192	. 0143	. 0080	. 9961	. 9646	. 0035	. 0026	. 0050	. 8815	. 0012	6888	2000	. 0000
							-	_	-				-			

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 50% WR

	0.90 1.00										0510 0738	•		4562. 7462	*	•	•		•	•			*										0043 .0033	*					1999 1999				•			
	0.80								•		0000	•		0212.					•	•		*	•										. 0058		•				1000			,				
	92.6	9474	2368	2351	5325	9989	2031	2171		5000	1043			+ CO .	9001	1004	. 1363	1403	1364	. 1265	1168	. 1973	. 6981	. 6894	.6731	. 0588	. 0465	. 0362	.0278	. 0210	. 0157	. 0116	. 0085	. 0062	. 0027	1100	9005	0000	2000	0000	00000	. 0000	0000	. 0000	. 0000	0000
	09.0	1881	1877	996	1848	1823	1700	1754		. 16.10	1661	. 1001		1040	1400	. 1423	1306	1280	1217	1147	2201.	1002	. 0938	. 9871	. 0742	. 0624	. 0517	. 0422	. 0341	. 6271	. 0213	. 0166	. 0127	2600	. 6647	1000	0100		5000	1000	1000	. 0000	. 0000	. 0000	. 0000	0000
	6.55	16.20	1636	16.98	4191	15051	1571	1543	000	. 1500	1430	9041.	*000	. 1383	1336	1286	1234	9911	1124	. 1067	. 1010	. 0953	. 6896	. 9849	. 0731	.0628	. 0532	. 0446	. 0369	. 0302	. 0244	. 0195	.0154	. 0121	. 6663	1600	9014	1000	9000	. 0000	1000	.0001	. 0000	. 0000	. 0000	0000
(CEP _a)	9.59	1403	1401	1305	1385	1371	1954	1333	0000	1390	1040	. 1547	3103	1210	9911.	7411	1102	1000	2101.	6260	. 6929	. 9883	. 0838	. 6263	9794	. 0618	. 0537	. 0461	. 0392	. 6329	. 0274	. 0226	. 0 184	. 0149	. 0084	9944	6600	1100	1000	2000	7000	1000	. 6661	. 6666	. 0000	. 0000
Pa (WR)	9.45	1176	1174	1170	. 1163	1153	1141	1136	000		1067	. 1001	0101	240	1101.	9669	1960	. 6936	6686	. 9866	. 9833	6620	. 0765	. 0230	. 9661	. 0592	. 0526	. 0463	. 0404	. 6349	. 6299	. 0254	. 0214	. 0178	. 0109	9963	9033	0100	0000	. 0000	0000	2000	. 0001	. 0000	. 6666	. 0000
WEAPON RADIUS/CEP _a (WR/CEP _a	9.40	9050	6958	0000	1969	9944	9000	9600		0160	9887		0000	6200	6669	. 6634	. 9814	5620	1220	. 6748	6229	1020	9290	. 0651	. 9699	. 0549	. 0499	. 0449	.0402	. 6357	. 6314	. 0275	. 0238	. 0202	. 6137	2000	6653	1000	9631	0100	0000	6000	. 0003	. 0001	. 6661	. 0000
N RAD	0.35	0777	9756	9754	0752	074B	0743	9220	0010	62.00	0711		. 010	1010	9699	8296	. 0000	2000.	. 6637	. 0623	2090	. 0591	. 0575	. 0558	. 0523	. 0488	. 0452	. 9416	. 0381	. 0347	. 0314	. 0282	. 0252	. 0224	. 0163	4114	0077	0200	9000	1000		. 0011	9000	. 0004	. 0002	. 000
WEAPO	0.30	0579	0571	0570	0269	9266	0263	9269	0000	0000	1000	24.00	01.10	9409	. 6553	9250	6100	1160.	2000.	. 6493	. 6484	4240	. 0464	. 0454	. 0433	. 0411	. 0388	. 0364	. 0341	. 0318	. 0294	. 0272	. 0220	. 0228	6210.	4137	010	0000	5000	1000	0000	. 6623	. 0015	6000	9000	. 0003
	0.25	9497	0407	9496	. 0405	9404	0403	0401	0000	6000	0304		. 000	1639	9000	. 0384 0000	9389	. 6376	. 6361	. 6366	. 6362	. 0356	. 0351	. 0346	. 0334	. 0322	. 0309	. 0295	. 9282	. 0268	. 0254	. 6246	. 0226	. 6212	. 6178	9147	0110	0000	6600	0000	. 2000	1600.	. 6636	. 0022	. 0015	. 9910
	0.20	9966	9266	9966	. 0265	. 0265	4966	0263	0000	0000	0260	0000	0200	6500	0070	0520	4070	7679	1629	. 0248	. 0246	. 0244	. 0242	. 6239	. 0234	. 6228	. 0222	. 0216	. 0209	. 0202	. 0195	.0188	. 0181	4210	. 0155	9137	0110	0100	2010	9920	0700	9999	. 0048	. 6639	. 0031	. 9924
	9.15	0152	6152	0152	. 0152	0152	0150	0121			9130		0210	9619	410	6416	9110	9410	2410	. 6146	04190	. 6145	. 6144	.0143	.0141	.0139	. 6137	. 0135	. 6133	. 6136	.0128	. 0125	. 0122	6119	. 0112	9194	9600	9999	9999	0000	1900	0000	. 6657	. 6651	. 0044	. 6639
	9.19	9969	6900	6966	6900	0068	9998	9968	0000	0000	9999		0 700	0000	0000	9000	9999	9999	9909	2900	2999	2966	2907	2900	9900	. 0066	. 0065	. 0065	. 0064	. 0964	. 0063	. 0063	. 0062	. 9961	. 9969	9200	9000	0000	4000	9040	2000	. 664	.0044	. 0045	. 6639	. 0037
	0.02										0017			2100										. 0017	2100								2100			2100	9100	9100	9190	9100	9100	0100	. 0015	. 0013	. 6615	. 6615
		00 0	0 . 0	0 20	0.30	0.40	6 50	9 69	200	000	000		00 .	1.00		0	1.30	01.	96.1	00.	1.00	1.86	96.	5.00	2.20	2.40	2.60	2.80	3.66	3.20	3.40	3.60	3.80	4.00	4.50	2 40	90	90.5	6.00	2 00	1 20	96.7	8.60	8.59	6.00	9.50

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_d) = 50\% \text{ WR}$

					8	WEAPON		RADIUS/CEP _a	(WR/CEP _a)	EP _a)						
	1.10	1.20	1.30	1.40	1.50	1.60	1.79	1.80		2.00	2.10	2.20	2.30	2.40	2.50	2.60
00.0	. 4277	. 4784	.5105	.5481	.5830	.6155	.6456	.6733	6869	.7225	.7442	.7642	. 7825	7994	.8149	.8291
6.62	. 4272	.4698	.5098	.5472	.5820	.6144	. 6443	.6720	2269	.7210	.7426	.7624	7897	4262.	.8128	.8279
9.10	. 4257	6294	. 5976	. 5446	1629	.61111	.6407	.6680	.6931	.7163	9282	.7572	.7751	2162.	. 8969	8598
6.15	. 4232	. 4648	. 5039	. 5464	.5742	.6956	.6346	.6613	.6829	.7086	.7294	.7485	.7669	.7822	0262	.8196
0.30	4197	.4696	.4988	. 5344	.5675	.5980	. 6262	.6521	.6760	6269	.7180	. 7365	.7534	0692	. 7833	. 7965
0.25	.4153	. 4551	.4924	. 5270	. 5589	.5884	.6156	.6405	.6634	. 6844	7697.	.7214	.7376	. 7525	1992	7877
0.30	4000	.4486	. 4846	.5180	.5487	.5769	.6029	. 6267	.6484	.6684	.6866	.7033	7817.	7327	.7456	.7575
0.33	.4037	.4410	.4756	.5975	.5368	.5637	. 5882	.6197	.6312	6466	0299	.6826	6969	1912	.7221	.7332
0.40	3966	. 4324	. 4655	. 4958	. 5235	.5488	5718	.5928	.6119	.6293	.6451	. 6595	.6727	6848	6669	9962
6.42	.3888	. 4229	.4545	. 4828	.5088	.5324	.5538	.5732	.5908	2909	.6212	. 6344	. 6464	. 6573	. 6674	.6765
0.50	.3802	.4125	.4420	.4688	.4930	.5148	.5344	.5522	.5682	.5826	2665.	2209	.6182	.6280	.6369	.6451
	3200	. 4014	. 4290	. 4538	.4760	. 4960	.5139	. 5299	.5443	1222	. 5688	.5792	. 5887	.5972	. 6656	.6121
	.3611	.3896	.4151	.4379	. 4582	.4763	. 4923	. 5066	.5193	2089	.5408	.5499	.5581	.5654	.5721	.5781
	.3507	1228	. 4006	. 4214	.4397	.4559	.4701	. 4826	. 4937	. 5035	.5121	.5199	.5268	. 5329	.5384	.5434
	.3398	.3642	.3856	. 4643	. 4206	.4349	.4473	.4581	.4675	.4758	.4831	.4895	.4951	.5001	.5946	. 5085
6.73	.3285	.3598	.3701	.3868	.4012	.4135	. 4241	. 4333	.4412	.4480	.4539	.4590	.4635	4674	6024	4239
	.3169	.3371	.3543	.3690	.3814	.3920	4009	.4084	.4148	. 4203	.4249	.4289	.4323	.4352	.4377	.4398
	3051	.3231	.3383	.3510	.3616	.3764	.3777	.3837	.3887	.3929	.3963	.3992	.4916	.4036	. 4052	.4066
	. 2930	.3090	.3222	.3330	.3418	.3489	3547	.3593	.3631	.3660	.3684	.3703	.3718	.3730	.3739	.3746
	.2868	. 2948	.3060	.3150	.3222	.3277	.3321	.3354	.3380	.3399	.3414	.3424	.3431	.3435	.3438	.3439
	. 2683	. 2805	.2900	.2973	.3028	.3070	.3100	.3122	3137	3147	.3153	.3156	.3156	.3155	.3152	.3148
1.05	.2562	.2664	.2741	.2798	.2839	.2867	.2886	.2898	.2903	. 2905	. 2904	.2900	. 2895	.2888	.2881	.2873
1.10	.2440	. 2524	. 2585	.2627	.2654	1292	2679	.2682	.2680	2674	.2667	.2658	.2648	2638	2627	.2616
1.15	.2318	. 2386	. 2431	. 2460	. 2475	.2482	. 2481	.2475	.2467	.2456	. 2443	.2430	2417	.2403	.2390	. 2377
1.20	.2199	. 2250	. 2282	.2298	. 2303	.2300	2292	.2279	. 2265	.2249	. 2233	. 2217	.2200	.2185	.2170	.2155
1.25	.2081	.2118	.2137	.2142	.2138	.2127	.2112	.2094	.2075	.2056	.2037	.2018	.2000	. 1983	. 1966	1921
1.30	. 1965	1989	2661	. 1992	1980	. 1962	1942	. 1920	1897	. 1875	. 1854	. 1833	1814	9621	6221	1764
1.35	. 1853	. 1865	. 1862	. 1849	. 1829	. 1896	. 1782	. 1756	.1731	1797	. 1685	. 1663	. 1643	. 1625	. 1608	. 1592
1.40	. 1743	1744	. 1732	. 1712	. 1687	. 1660	. 1631	1604	1577	. 1552	.1528	1507	1487	. 1468	. 1451	.1436
1.45	1637	. 1629	. 1609	. 1582	.1553	. 1522	1491	. 1462	. 1434	1409	. 1385	. 1363	. 1343	. 1325	. 1369	1294
1.50	. 1535	. 1518	1491	. 1460	. 1427	. 1393	. 1361	. 1331	. 1303	. 1277	. 1253	. 1232	.1213	. 1195	1180	. 1165
1.53	. 1436	. 1412	. 1380	. 1344	. 1398	. 1273	. 1240	. 1210	.1182	.1156	.1133	. 1113	1004	2201	. 1062	1049
1.69	. 1341	. 1311	. 1274	. 1236	1198	. 1162	1129	1098	1201.	. 1046	. 1024	1004	9860.	1260	. 0957	. 0944
1.65	. 1251	. 1215	. 1175	.1134	. 1095	. 1059	. 1026	9660	6960	. 0945	. 0924	. 0965	6889	. 9874	. 9861	. 0849
1.70	. 1165	. 1124	. 1981	. 1639	. 1000	. 0964	. 6931	. 0902	. 9876	. 0854	. 0834	. 9816	. 6861	. 0787	6229	. 9764
1.80	1004	. 6958	. 6912	6986	. 6836	9620.	. 0765	6239	9120	9690	8290.	. 0663	. 0650	. 0638	. 0628	6190
1.96	. 6861	. 9812	. 0765	. 0724	. 9687	. 0655	. 0627	. 0604	. 0584	. 0266	.0551	.0538	. 0527	. 0517	. 0209	. 0201
5.00	. 6734	. 9684	. 0639	. 9699	. 0266	. 0537	. 0513	.0493	. 0475	.0461	. 0448	. 0437	.0428	. 0450	. 0413	. 0407
2.10	. 0623	. 9574	. 6232	. 9496	. 0465	. 0440	. 0419	. 0402	. 0387	. 0375	. 0365	. 9356	. 0348	. 0342	. 0336	. 6331
2.20	. 0526	. 6486	. 6441	. 6469	. 0382	.0360	. 0343	. 6328	. 6316	. 0306	. 6297	. 0290	. 0284	. 0278	. 0274	. 0269
2.30	. 6442	. 0400	. 6364	. 6336	. 6313	. 0295	. 0280	. 0268	. 0258	. 0249	. 0242	. 6237	. 0231	. 0227	. 6223	. 0220
5.40	0320	. 6332	. 0301	. 9226	. 0257	. 0241	. 6559	. 0219	. 0211	. 6264	. 0198	. 0193	6816	. 0186	. 6183	. 6186

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 50\% \, \mathrm{WR}$

0.227 0.246 0.275 0.246 0.1.50 1.60 1.70 1.60 1.70 1.60 2.00 2.10 2.20 2.20 2.20 2.20 2.20 0.00	1.20					-		1				000	2.40	2.50	000
0.246 0.227 0.211 0.198 0.173 0.173 0.157 0.139 0.157 0.113 0.110 0.246 0.157 0.114 0.117 0.117 0.117 0.113 0.114 0.114 0.014 0.005 0.0		1.30	1.40	1.50	1.60	1.70	1.66	1.90	5.00	5.10	5.20	2.30			2.00
0.294 0.187 0.087 <th< td=""><td>9275</td><td>.0248</td><td>. 0227</td><td>.0211</td><td>.0198</td><td>.0188</td><td>6210</td><td>.0173</td><td>2910</td><td>.0162</td><td>.0159</td><td>. 9155</td><td>.0152</td><td>. 6156</td><td>.0148</td></th<>	9275	.0248	. 0227	.0211	.0198	.0188	6210	.0173	2910	.0162	.0159	. 9155	.0152	. 6156	.0148
0.114 0.0153 0.0142 0.0133 0.0124 0.0164 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0049 0.0047 0.0049 </td <td>1224</td> <td>. 0204</td> <td>2810</td> <td>.0173</td> <td>.0162</td> <td>.0154</td> <td>. 0147</td> <td>.0142</td> <td>2810</td> <td>.0133</td> <td>.0130</td> <td>. 0128</td> <td>. 0125</td> <td>. 6123</td> <td>. 0121</td>	1224	. 0204	2810	.0173	.0162	.0154	. 0147	.0142	2810	.0133	.0130	. 0128	. 0125	. 6123	. 0121
0.139 0.1126 0.117 0.110 0.114 0.114 0.115 0.117 0.110 0.114 0.115 0.117 0.110 0.114 0.114 0.114 0.115 0.117 0.114 0.114 0.114 0.014 0.0054 0.00	1138	. 0168	.0153	. 0142	.0133	. 0127	. 0121	2110.	. 6113	. 6110	2010.	5010	. 0103	2010	9919
0.054 0.0164 0.0165 0.055 0.	155	.6139	.0126	2110	.0110	. 0104	. 0100	9699	. 6663	1600	. 0000	. 0000	6899	. 9984	5000
00.74 00.86 00.67 00.74 00.86 00.67 00.74 00.76 00.74 00.87 00.76 <th< td=""><td>128</td><td>. 6114</td><td>. 0104</td><td>9690</td><td>1600.</td><td>9899</td><td>. 6682</td><td>6200</td><td>2200</td><td>0000</td><td>5000</td><td>2300</td><td>0200</td><td>0000</td><td>0000</td></th<>	128	. 6114	. 0104	9690	1600.	9899	. 6682	6200	2200	0000	5000	2300	0200	0000	0000
0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.5 0.06.4 0.06.3 0.06.4 0.06.3 0.06.4 0.06.3<	901	. 0004	. 9986	9809	6200	1200.	. 0068	9999	+900	2000	1000	0000	6000	0000	0000
0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.5 0.06.4 0.06.4 0.06.4 0.06.5<	988	8200	1200	9900	. 0062	. 0029	2900.	. 0022	. 0053	. 0002	1000.	9699	6400	9499	0400
0.0454 0.0449 0.0453 0.0411 0.0534 0.0454 0.0454 0.0454 0.0453 0.0451 0.0453 0.0451 0.0453 0.0534 0.0453 0.0534<	072	. 0065	. 0029	. 0055	. 0052	. 0049	. 0047	. 0046	. 0044	. 0043	. 9942	. 0041	. 6641	. 9940	. 9949
0.045 0.041 0.038 0.034 0.033 0.032 0.033 0.033 0.031 0.035 0.035 0.043 0.023 0.023 0.024 0.023 0.024 0.025 0.025 0.024 0.025 0.001 0.011 0.0	090	. 0024	. 0049	. 0045	.0043	. 0041	. 6639	. 0038	2800.	. 0036	. 6635	. 6635	. 6634	. 9934	. 6633
0.03.7 0.03.4 0.03.2 0.03.2 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4 0.02.3 0.02.4<	9920	. 0045	. 0041	. 0038	.0036	. 0034	. 6033	. 0032	. 0031	. 6636	. 6636	. 0029	. 0029	. 0028	. 0028
06231 06226 0627 0624 0624 0623 0622 0621 <	1041	2000	9000	6699	9039	9000	8000	2000	9000	9002	0025	900	.0024	.0024	.0023
60026 60024 60021 60020 60019 60019 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60018 60019 <th< td=""><td>1000</td><td>1000</td><td>8000</td><td>0002</td><td>2000</td><td>4000</td><td>0000</td><td>6000</td><td>6600</td><td>1600</td><td>0051</td><td>1000</td><td>9959</td><td>9929</td><td>.0020</td></th<>	1000	1000	8000	0002	2000	4000	0000	6000	6600	1600	0051	1000	9959	9929	.0020
6022 6026 6027 6026 6016 6016 6016 6015 6015 6015 6015 6016 6016 6016 6016 6016 6016 6017 6018 6017 6014 6019 <th< td=""><td>0000</td><td>9000</td><td>4000</td><td>0000</td><td>1000</td><td>0000</td><td>0100</td><td>0100</td><td>8100</td><td>9018</td><td>.0018</td><td>2100</td><td>5100</td><td>6017</td><td>2100</td></th<>	0000	9000	4000	0000	1000	0000	0100	0100	8100	9018	.0018	2100	5100	6017	2100
6018 6017 6016 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6013 6011 <th< td=""><td>1004</td><td>0000</td><td>0000</td><td>6100</td><td>9018</td><td>2100</td><td>9199</td><td>9199</td><td>9100</td><td>. 0015</td><td>. 0015</td><td>. 0015</td><td>. 6614</td><td>. 0014</td><td>. 0014</td></th<>	1004	0000	0000	6100	9018	2100	9199	9199	9100	. 0015	. 0015	. 0015	. 6614	. 0014	. 0014
6615 6614 6613 6613 6613 6611 6611 6011 <th< td=""><td>950</td><td>8100</td><td>2100</td><td>9100</td><td>. 0015</td><td>. 0014</td><td>. 0014</td><td>. 0013</td><td>. 0013</td><td>.0013</td><td>.0013</td><td>.0012</td><td>.0012</td><td>. 6612</td><td>. 6612</td></th<>	950	8100	2100	9100	. 0015	. 0014	. 0014	. 0013	. 0013	.0013	.0013	.0012	.0012	. 6612	. 6612
40013 0012 0011 0011 0010 0010 00109 0010	2100	6015	9014	.0013	. 6613	. 0012	. 9912	. 9911	. 6611	. 0011	1100.	. 9911	.0010	0100	. 9919
	9014	. 6013	. 0012	. 6611	. 0011	.0010	.0010	0100	6000	6000	6000	6000	6000	6000	6000
60009 60009 60009 60007 <th< td=""><td>9012</td><td>. 6611</td><td>0100</td><td>. 9919</td><td>6000</td><td>6000</td><td>6000</td><td>. 0008</td><td>.0008</td><td>. 0008</td><td>. 0008</td><td>. 6668</td><td>8000</td><td>. 0008</td><td>2000.</td></th<>	9012	. 6611	0100	. 9919	6000	6000	6000	. 0008	.0008	. 0008	. 0008	. 6668	8000	. 0008	2000.
60067 6006 <t< td=""><td>919</td><td>6000</td><td>6000</td><td>. 0008</td><td>.0008</td><td>2000</td><td>2000</td><td>2000</td><td>2000</td><td>2000</td><td>2000</td><td>2000</td><td>9000</td><td>9000</td><td>9000</td></t<>	919	6000	6000	. 0008	.0008	2000	2000	2000	2000	2000	2000	2000	9000	9000	9000
60067 60066 60065 60055 60055 60055 60055 60065 60065 60065 60065 60065 60065 60065 60064 <th< td=""><td>6000</td><td>. 6668</td><td>2000</td><td>2000</td><td>2000</td><td>9000</td><td>9000</td><td>9000</td><td>9000</td><td>9000</td><td>.9000</td><td>9000</td><td>9000</td><td>. 0005</td><td>. 0005</td></th<>	6000	. 6668	2000	2000	2000	9000	9000	9000	9000	9000	.9000	9000	9000	. 0005	. 0005
06065 06065 06065 06064 06064 06064 06065 06065 06064 06063 06063 06063 06063 06063 06063 06063 06063 06062 <th< td=""><td>2006</td><td>2000</td><td>9000</td><td>9000</td><td>9000</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td><td>. 0005</td></th<>	2006	2000	9000	9000	9000	. 0005	. 0005	. 0005	. 0005	. 0005	. 0005	. 0005	. 0005	. 0005	. 0005
00005 00005 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00004 00003 00002 0000	9000	9000	. 0005	. 0005	. 0005	. 0005	. 0005	.0004	.0004	. 0004	. 0004	. 0004	.0004	. 6664	. 0004
06064 06064 06064 06064 06063 <th< td=""><td>6000</td><td>. 0005</td><td>. 0005</td><td>. 0004</td><td>.0004</td><td>. 0004</td><td>. 0004</td><td>. 0004</td><td>. 0004</td><td>. 0004</td><td>. 0004</td><td>. 0004</td><td>. 9994</td><td>. 0003</td><td>.0003</td></th<>	6000	. 0005	. 0005	. 0004	.0004	. 0004	. 0004	. 0004	. 0004	. 0004	. 0004	. 0004	. 9994	. 0003	.0003
0.0003 0.0002 0.0001 0	6000	. 0004	. 0004	. 9994	.0004	. 6663	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003
64663 64663 64663 64663 64662 64663 64661 <th< td=""><td>9004</td><td>. 6664</td><td>. 0003</td><td>.0003</td><td>.0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 0003</td><td>. 6663</td><td>. 0003</td></th<>	9004	. 6664	. 0003	.0003	.0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 0003	. 6663	. 0003
0.0063 0.0063 0.0062 0.0061 0	8000	. 0003	. 6663	. 6663	. 0003	. 0003	. 6663	. 0002	. 0002	. 0002	. 0002	. 0002	.0002	. 0002	. 0002
60002 60001 60001 <th< td=""><td>9003</td><td>. 6663</td><td>. 0003</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 6602</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 6662</td><td>. 0002</td><td>.0002</td></th<>	9003	. 6663	. 0003	. 0002	. 0002	. 0002	. 6602	. 0002	. 0002	. 0002	. 0002	. 0002	. 6662	. 0002	.0002
64662 64662 64662 64662 64662 64662 64662 64662 64662 64662 64662 64662 64662 64661 <th< td=""><td>9002</td><td>. 0002</td><td>. 6662</td><td>. 6662</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>.0002</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>. 0002</td><td>.0002</td><td>. 0005</td></th<>	9002	. 0002	. 6662	. 6662	. 0002	. 0002	. 0002	.0002	. 0002	. 0002	. 0002	. 0002	. 0002	.0002	. 0005
0.0002 0.0002 0.0001 0	9992	. 6662	. 6662	. 0002	. 0002	. 0002	. 0002	.0002	. 0002	. 0002	. 0002	. 0002	. 0001	. 0001	. 6661
. 6661 .	9002	. 0002	. 0002	. 0002	1000	1000	1000	1000	. 0001	. 0001	. 6661	. 0001	. 0001	1 000 .	. 0001
. 6661 . 6661 . 6661 . 6661 . 6661 . 6661 . 6661 . 6661 . 6061 .	9992	. 9991	. 0001	. 0001	1000	1000	1000	. 0001	. 0001	. 0001	1000	1000	1000	1000	. 0001
	1000	. 6061	. 0001	1000	1000	. 9991	. 0001	. 0001	1000	. 0001	. 0001	1000	1000	1000	1000
	1999	1000	1000	1000	1000	. 9991	1000	. 0001	. 9991	. 0001	. 6661	. 6661	. 6061	. 0001	. 9991
0.0001 0.0001<	1000	. 9991	. 9991	. 6661	. 9991	.0001	. 0001	. 0001	. 0001	. 6661	1000	.0001	. 0001	1000	.0001
	1001	. 0001	1000	. 9991	. 0001	. 0001	1000	. 0001	. 6661	. 0001	. 6661	. 6661	1000	1000	. 0001
. 6961 9661 9661 9661 9601	1001	1000	1000	1000	1000	1000	1000	1000	. 6661	. 6661	. 6661	. 0001	1000	. 0001	1000
	1000	. 0001	1000	. 6661	1000	.0001	1000	. 0001	. 6661	.0001	. 0001	. 6661	. 0001	1000	. 0001
. 00001 . 00000 . 0000	1001	1000	1000	1000	1000	. 0000	0000	.0000	. 0000	.0000	0000	.0000	. 0000	. 0000	.0000
0000 0000 0000 0000 0000 0000 0000 0000 0000	1000	1000	0000	. 0000	. 9999	0000	0000	0000	0000	0000	0000	. 0000	. 0000	0000	. 0000
0000 0000 0000 0000 0000 0000 0000 0000 0000	0000	0000	0000	0000	0000	. 0000	0000	0000	0000	0000	0000	. 0000	. 0000	0000	.0000
0000 0000 0000 0000 0000 0000 0000 0000 0000	9999	0000	. 0000	. 0000	. 0000	.0000	. 6066	0000	0000	0000	0000	. 0000	0000	. 9999	.6666
0000 0000 0000 0000 0000 0000 0000 0000 0000	9996	. 0000	. 0000	0000	. 6666	. 0000	. 0000	. 0000	0000	0000	. 0000	0000	. 0000	0000	.0000
20001 20001 20001 20001 20001 20001	990	. 6666	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000	.0000	. 0000	. 0000	. 0000	. 0000	. 0000	. 0000

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA (σ_d) = 50% WR

WEAPON RADIUS/CEP_a (WR/CEP_a)

	2.60	9804	. 9785	9725	9620	9465	9526	8989	8664	8286	. 7863	7404	7214	7929	. 6824	.6627	.6459	.6230	.6033	. 5836	. 5641	. 5449		.5259	.5072	.4889	6024	. 4533	. 4362	.4195	. 4032	4285	.3572	2439	3000	0110	5000	0200	1062	. 2780	9664	
	2.40	2226	9526	9695	9588	9431	9219	8952	8698	8253	7834	.7386	1612	6669	.6896	6199	6414	.6218	. 6022	5827	.5634	.5443		5254	. 5069	4886	4708	. 4533	4362	4196	4034	3866	3576	3439	3008	9160	0000	9000	2062	. 2785	9669	
	2.50	. 9745	.9724	1996	. 9551	. 9392	0110	8911	8589	8017	. 7802	.7353	.7166	2269	.6785	.6592	.6398	. 6203	.6910	5817	.5625	.5436		.5249	. 5965	. 4884	9024	. 4532	. 4363	2614	. 4036	. 386.9	.3579	3436	3008	4916	1000	00000	0165	0627	9674	
	2.00	.9708	.9687	.9622	. 9510	.9348	9134	RREE	8546	8177	9922	.7323	.7139	.6952	.6762	.6571	. 6380	.6187	.5996	.5805	.5615	.5428		.5242	. 5060	.4889	4204	. 4532	. 4363	4198	. 4038	3882	.3583	3441	3303	2160	2010	0400	0167	9627	2680	
	4.80	9996	.9644	. 9577	.9463	. 9366	9084	8817	8498	8133	. 7727	. 7290	.7108	. 6924	. 6737	. 6548	. 6329	6919	.5980	1629	.5684	.54 8		. 52 35	. 5654	.4876	1024	. 4530	. 4363	4199	4040	. 3000	.3587	3445	3368	2173	2046	00000	20000	2802	2687	
,	4.68	9196	.9594	. 9525	.9410	. 9245	9029	8762	8445	8084	. 7684	.7253	4202	.6892	8029	.6523	. 6336	.6149	.5962	9229	.5591	.5407		. 5226	.5047	. 4871	. 4698	. 4528	. 4362	. 4200	14045	00000	. 3592	3450	3313	3181	2010	0000	0000	5886	. 2694	
,	4.40	.9559	.9535	.9466	.9349	.9182	.8966	8700	8387	8636	. 7635	.7211	.7036	.6857	9299	.6493	.6310	.6126	. 5942	.5758	.5576	.5395		.5216	. 5639	. 4865	4694	. 4526	. 4361	4200	. 4643	9241	.3596	3456	3320	3187	3060	2000	0000	2197	2702	
	4.20	.9491	.9468	2686	.9279	.9112	.8895	8631	8321	6962	.7581	2912	. 6992	.6817	.6639	.6460	.6280	6609	. 5918	.5738	.5558	.5380		. 5203	. 5029	. 4857	. 4688	. 4522	. 4360	9674	. 4643	2745	.3601	3462	3326	3162	3067	2044	1000	. 2825	2710	
00	4.00	.9412	. 9388	. 9317	.9198	. 9031	. 8815	.8553	8247	1062	.7521	.7113	.6944	.6772	. 6598	.6422	6242	.6968	.5891	. 5714	. 5537	. 5362		.5189	. 5017	. 4848	. 4681	. 4518	. 4357	9676	2000	9740	3696	3468	3333	3202	3076	0000	2000	. 2833	. 2720	
00 0	3.86	. 9320	.9596	. 9224	.9105	8638	.8724	.8465	8164	7824	. 7452	. 7053	. 6888	.6720	. 6559	6289	. 6286	.6033	. 5859	. 5686	.5513	. 5342		.5171	. 5003	. 4837	. 4673	. 4511	.4333	9614	0000	3753	.3611	3474	.3340	3211	3485	2062	2000	2049	2731	
0 60	3.00	.9211	.9187	.9115	2668	. 8831	.8620	.8365	.8069	7822	.7374	9869.	. 6825	1999.	.6496	. 6329	1919.	.5992	. 5822	. 5653	.5484	.5317		.5150	. 4985	. 4822	.4661	. 4503	7434	2014	0000	3756	.3616	.3480	.3348	3220	3005	20074	2000	2007	. 2743	
2 40	9. 40	.9983	6206.	8868	.8879	.8707	.8500	.8250	1962	.7638	.7285	8069	.6752	. 6594	.6433	. 6271	2019	. 5943	6229	.5614	.5450	.5287		.5124	4964	4804	.4646	.4492	4340	1040	2000	3758	.3621	.3487	.3356	3229	3105	29.85	0900	. 2007	2522.	
2 30	9.50	.8931	8968	.8838	.8723	.8563	.8360	.8118	. 7838	.7525	.7183	6189	.6668	. 6515	.6369	. 6203	. 6945	2885	.5727	. 5568	. 5409	. 5251		. 5093	. 4937	4782	4629	4478	4329	4000	3807	3759	.3624	.3492	.3364	.3238	3116	2998	2883	2002	1227	2000
3 00	3.00	.8753	.8730	.8662	.8559	.8395	.8199	4962	.7694	.7393	.7965	6715	.6571	.6424	. 6275	. 6124	. 5972	. 5820	.5666	. 5513	. 5360	. 5207		. 5054	. 4903	5004	. 4000	4408	101	4001	3803	3758	.3626	.3497	.3371	.3248	.3128	3011	2807	1000	2827	000
9 80	2.00	.8541	. 8519	8454	.8346	2618	. 8009	.7785	.7527	.7240	. 6927	.6394	.6456	.6316	+219.	. 6030	. 5885	.5739	. 5593	. 5446	.5299	. 5152		. 5006	. 4861	1111	+20+	7555	4.45	0107	3885	3754	.3626	.3500	.3376	.3256	.3138	3024	2010	1000	. 2804	00000
9 6		. 8291	8270	8508	.8106	2962	2822	.7575	.7332	9902	.6765	.6451	.6321	.6188	. 6934	. 5918	. 5781	. 5643	. 5504	. 5364	. 5225	. 5685		4946	4868	0000	4000	4364	1001	4001	3879	3746	.3621	.3499	.3380	.3262	.3148	3036	2656		1797	
		90	92	91	15	50	23	30	35	40	43	20	25	24	36	28	99	62	64	99	89	92	-	77	+1	10	000	000	200	8	88	96	92	+6	96	86	99	0.5	94		99	

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OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA ($\sigma_{\rm d}$) = 50% WR

WEAPON RADIUS/CEPa (WR/CEPa)

5.69	2243 2148 2956 1969 11885 1727 1653 1582	1328 1271 1216 11164 1164 11667 1067 0822	0535 0433 0351 0286 0286 0129 0129 0088	9969 9982 9982 9982 9982 9982 9982 9982
5.40	22248 22152 2061 1973 1889 1731 1557 15186	1453 1331 1224 1227 1128 1168 11024 0824	0536 0434 02334 0234 0129 0129 00188	9961 9961 9961 9961 9961 9961 9961 9961
5.20	2253 2158 2066 1979 11894 11736 11662 11591	1458 11336 11236 11278 11274 11074 11028 0827	0538 0436 0436 0354 0235 0129 0129 0073	99651 99651 99651 99636 9925 9918 9918
5.00	22259 21649 2072 1986 1986 1742 1566 1586	1463 1288 1228 1228 1228 1125 1125 11077 1083 06830	0540 0437 0437 0235 0130 0130 00130	.0001 .0001 .0001 .0001 .0001 .0001 .0001
4.80	2266 2170 2979 1991 1748 1673 1673	1468 11466 11346 1233 1233 1130 1130 1130 1130 1130 1130	.0543 .0439 .0356 .0236 .0130 .0130 .0088	. 9961 9961 9963 9963 9962 9962 9961 9961 9961
4.60	2273 2178 21086 1998 1914 11833 1755 1689 1689	1475 1412 1352 1239 1239 1186 1185 1185 1186 1187 1187 1187 1187 1187 1187 1187	.0545 .0441 .0358 .0291 .0291 .0194 .0131 .0108	.0001 .0001 .0003 .0003 .0003 .0001 .0001 .0001
4.40	2281 2186 2094 2096 1922 1922 1688 1688 1616	1482 1358 1358 1366 1245 1192 1194 1946 9842	9548 9548 95448 9559 9195 9195 9199 9099	.00052 .00052 .00053 .00053 .00053 .00013 .00013
4.20	2291 2195 2195 2016 2016 1931 1697 1697 1625	1427 1366 1366 13868 1199 1199 1953 9848	9552 9447 9447 9295 9296 9197 9181 9199 9699	9999 9993 9993 9993 9993 99913 99913
4.00	2301 22206 22104 2014 1941 1782 1782 1797 1565	1499 11436 11375 11317 11267 11267 11197 11969 9854	9556 9556 9556 9297 9198 9119 9119 9671	99953 99953 99953 99954 99913 99913
3.80	2313 2218 22126 2038 1953 17793 17793 1718 1646	1510 1385 1385 1326 1276 1217 1116 1968 9861	9561 9454 9366 9366 9244 9154 9154 9134 9134	99934 99934 99934 9992 9992 99918 99918
3.60	2327 2232 2140 2952 1967 1885 1897 1731 1659	1522 1458 1397 1338 1282 1227 1126 1678 9869	9567 9459 9372 9372 9287 9196 9136 9112 9975	99954 99937 99937 99926 99919 99916
3.40	2342 2247 2157 2967 1982 11822 1746 1674	. 1537 . 1473 . 1411 . 1352 . 1295 . 1296 . 1138 . 1138 . 1699 . 6879	9573 9464 9377 9396 9294 9167 9137 9137 9137	9999453 99937 99937 99937 99919 99919 99919
3.20	2359 2265 2173 2985 2986 1919 11846 1764 1621	1554 1427 1427 1368 1316 1253 1152 1164 6891	. 6581 . 6382 . 6318 . 6253 . 6169 . 6115 . 6115 . 6678	99965 99965 9993 9993 9991 9991 9991 9991 9991 999
3.60	2378 2284 2193 2106 2021 1939 1785 1785	1589 1386 1386 1329 1220 1121 69965	9591 9388 9388 9316 9257 9172 9172 9172 9996	90055 90055 90055 90032 90033 90019 90019 90019
2.80	2400 2307 2216 2129 2045 1963 11883 11699 11736	1532 11532 11469 11293 11293 11293 1129 1121 1121 1121	9694 9397 9322 9223 9213 9214 9119 9194 9998	90054 90054 90033 90033 90023 90019 90016
2.60	2423 2242 2242 20155 20155 2015 1991 1837 1693 1693	1625 1766 1766 1766 1766 1767 1767 1767 176	. 6619 . 6501 . 6501 . 6331 . 6226 . 6126 . 6121 . 6196 . 6196	9999 99999 99973 99973 99973 99973 99974 99974
	4 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 6 6 6 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6	# 9 8 9 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8	00000000000000000000000000000000000000

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OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 50\% \, \mathrm{WR}$

WEAPON RADIUS/CEPa (WR/CEPa)

| 7666. | 0440 | . 9939 | . 9851 | .9692 | 9447 | 9112 | 8695

 | .8215

 | | 6892

 | 1242.

 | .7251

 | .7028

 | .6896

 | .6583

 | 6362

 | 6143

 | 5927

 | 5713

 | . 5504

 |

 | .5299

 | .5098

 | .4902

 | .4711

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9789 .9887 .9986 .9952 .9944 .9947 .9977 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9987 .9988 .998 | . 9848 . 9889 . 9918 . 9939 . 9954 . 9965 . 9973 . 9984 . 9987 . 9996 . 9996 . 9992 . 9994 . 9995 . 9996 . 9996 . 9996 . 9996 . 9997 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9988 . 9888 . 9888 . 9888 . 9888 . 9889 . 9888 . 9889 . 9888 . 9889 . 9888 . 9889 . 9888 . 9889 . 9981 . 9981 . 9938 . | . 9848 . 9889 . 9918 . 9954 . 9955 . 9973 . 9984 . 9987 . 9987 . 9996 . 9992 . 9994 . 9995 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9997 . 9836 . 9837 . 99883 . 9983 . 9983 . 9982 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9988 . 9988 . 9988 . 9888 . 9882 . 9882 . 9888 . 9882 . 9882 . 9882 . 9882 . 9882 . 9887 . 9888 . 9888 . 9882 . 9882 . 9887 . 98888 . 98888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 . 9888 | . 9848 . 9889 . 9918 . 9954 . 9954 . 9967 . 9984 . 9984 . 9980 . 9996 . 9995 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9996 . 9997 . 9992 . 9988 . 9981 . 9988 . 9981 . 9982 . 9981 . 9988 . 9981 . 9982 . 9981 . 9988 . 9981 . 9982 . | . 9848 . 9889 . 9918 . 9954 . 9955 . 9973 . 9978 . 9984 . 9987 . 9996 . 9995 . 9994 . 9995 . 9996 . 9995 . 9996 . 9995 . 9996 . 9997 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9987 . 9988 . 9991 . 9992 . 9982 . 9982 . 9982 . 9982 . 9982 . 9981 . 9988 . 9991 . 9992 . 9987 . 9988 . 9882 . 9882 . 9882 . 9882 . 9882 . 9882 . 9882 . 9882 . 9882 . 9883 . 9984 . 9885 . 9888 . | 9848 9918 9939 9954 9954 9967 9964 9996 9997 9987 9996 9997 9987 9996 9997 9987 9981 9999 9987 9999 9997 9991 9992 9997 9981 9984 9987 9989 9992 9992 9992 9992 9992 9992 9992 9992 9992 9992 9997 9997 9992 9997 9997 9992 9997 9997 9997
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 9911 9918 9924 9911 9918 9924 9918 <th< td=""><td>9846 9869 9918 9954 9954 9974 9977 9984 9995 9992 9974 9977 9984 9994 9994 9994 9994 9994 9994 9994 9974 9977 9971 9994 9994 9994 9994 9974 <th< td=""><td>9846 9869 995<!--</td--><td>98.84 9.9818 9.918 9.945 9.947 9.945 9.947 <t< td=""><td>9846 9869 9969 9964 9969 9973 9974 9984 9987 9979 9984 9979 9974 9974 9984 9995 9974 <th< td=""><td>9848 9889 99.8 99.5 99.7 99.8 99.8 99.9 99.7 99.8 99.8 99.9 99.7 99.8 99.9 <th< td=""><td>948.9 94.8 94.9 94.5 <t< td=""><td>948.9 <th< td=""><td>9484 9482 9484
9484 <th< td=""></th<></td></th<></td></t<></td></th<></td></th<></td></t<></td></td></th<></td></th<></td></th<></td></th<> | 984.8 988.9 991.8 995.9 995.4 997.3 997.9 998.7 998.1 999.2 999.9 999.2 999.7 998.1 999.2 999.9 999.2 999.1 999.2 999.2 999.1 999.2 <th< td=""><td>9846 9818 9918 9924 9942 9971 9994 9997 9994 9971 9992 9911 9919 9992 9911 9919 9972 9911 9919 9972 9911 9914 9972 9911 9914 9972 9911 9918 9924 9911 9918 9924 9911 9918 9924 9918 <th< td=""><td>9846 9869 9918 9954 9954 9974 9977 9984 9995 9992 9974 9977 9984 9994 9994 9994 9994 9994 9994 9994 9974 9977 9971 9994 9994 9994 9994 9974 <th< td=""><td>9846 9869 995<!--</td--><td>98.84 9.9818 9.918 9.945 9.947 9.945 9.947 <t< td=""><td>9846 9869 9969 9964 9969 9973 9974 9984 9987 9979 9984 9979 9974 9974 9984 9995 9974 <th< td=""><td>9848 9889 99.8 99.5 99.7 99.8 99.8 99.9 99.7 99.8 99.8 99.9 99.7 99.8 99.9 <th< td=""><td>948.9 94.8 94.9 94.5
 94.5 <t< td=""><td>948.9 <th< td=""><td>9484 9482 9484 <th< td=""></th<></td></th<></td></t<></td></th<></td></th<></td></t<></td></td></th<></td></th<></td></th<> | 9846 9818 9918 9924 9942 9971 9994 9997 9994 9971 9992 9911 9919 9992 9911 9919 9972 9911 9919 9972 9911 9914 9972 9911 9914 9972 9911 9918 9924 9911 9918 9924 9911 9918 9924 9918 <th< td=""><td>9846 9869 9918 9954 9954 9974 9977 9984 9995 9992 9974 9977 9984 9994 9994 9994 9994 9994 9994 9994 9974 9977 9971 9994 9994 9994 9994 9974 <th< td=""><td>9846 9869 995<!--</td--><td>98.84 9.9818 9.918 9.945 9.947 9.945 9.947 <t< td=""><td>9846 9869 9969 9964 9969 9973 9974 9984 9987 9979 9984 9979 9974 9974 9984 9995 9974 <th< td=""><td>9848 9889 99.8 99.5 99.7 99.8 99.8 99.9 99.7 99.8 99.8 99.9 99.7 99.8 99.9
 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 99.9 <th< td=""><td>948.9 94.8 94.9 94.5 <t< td=""><td>948.9 <th< td=""><td>9484 9482 9484 <th< td=""></th<></td></th<></td></t<></td></th<></td></th<></td></t<></td></td></th<></td></th<> | 9846 9869 9918 9954 9954 9974 9977 9984 9995 9992 9974 9977 9984 9994 9994 9994 9994 9994 9994 9994 9974 9977 9971 9994 9994 9994 9994 9974 <th< td=""><td>9846 9869 995<!--</td--><td>98.84 9.9818 9.918 9.945 9.947 9.945 9.947 <t< td=""><td>9846 9869 9969 9964 9969 9973 9974 9984 9987 9979 9984 9979 9974 9974 9984 9995 9974 <th< td=""><td>9848 9889 99.8 99.5 99.7 99.8 99.8 99.9 99.7 99.8 99.8 99.9 99.7 99.8 99.9 <th< td=""><td>948.9
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OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 50\% \, \mathrm{WR}$

WEAPON RADIUS/CEPa (WR/CEPa)

	6.99	6.50	2.00	2.50	8.00	8.50	9.00	9.50	10.00	19.59	11.66	11.50	12.66	12.50	13.66	13.50
1.14	. 2234	. 2226	.2219	.2214	.2269	. 2295	.2202	.2199	2197	.2195	.2193	.2192	.2196	.2189	.2188	.2187
1.16	.2139	.2131	.2124	.2119	.2114	.2110	.2107	.2105	.2102	.2100	. 2099	. 2097	.2096	. 2095	. 2894	.2093
1.18	.2048	.2640	.2033	.2028	.2023	.2020	. 2017	.2014	.2012	.2010	.2008	. 2007	. 2005	.2004	.2003	.2002
1.20	1961	. 1953	1946	1941	. 1936	. 1933	. 1936	. 1927	. 1925	. 1923	. 1921	. 1920	6161	. 1918	1917	9161
1.22	. 1877	. 1869	. 1862	. 1857	. 1853	. 1849	. 1847	. 1844	. 1842	. 1840	. 1838	. 1837	. 1836	. 1835	. 1834	. 1833
1.24	9621	1789	. 1782	2221 .	. 1773	0221	. 1767	1764	. 1762	. 1760	. 1759	. 1758	1756	. 1755	1754	. 1753
1.26	6121	. 1712	9021	1021	2691	. 1693	1691	. 1688	. 1686	. 1684	. 1683	. 1681	. 1689	6291	. 1678	. 1678
1.28	. 1646	. 1638	. 1632	. 1627	. 1624	. 1620	. 1618	. 1615	. 1613	. 1612	. 1610	. 1669	. 1698	. 1697	. 1696	. 1695
1.30	225:	. 1568	. 1562	. 1557	. 1553	. 1550	. 1548	. 1545	.1543	. 1542	. 1540	. 1539	.1538	.1537	. 1536	. 1535
1.32	1202	. 1200	. 1495	. 1490	. 1486	. 1483	. 1481	6241.	1477	. 1475	1474	. 1473	1441	1441	. 1470	. 1469
1.34	. 1443	. 1436	.1430	. 1426	. 1422	. 1419	1417	. 1415	.1413	. 1411	. 1410	. 1409	1408	. 1407	. 1496	. 1405
1.26	. 1381	1374	. 1369	. 1365	. 1361	. 1358	. 1356	. 1354	. 1352	. 1350	. 1349	. 1348	. 1347	. 1346	. 1345	. 1345
1.38	. 1321	. 1315	. 1310	. 1306	. 1302	. 1366	1297	. 1295	. 1294	. 1292	. 1291	. 1296	. 1289	. 1288	. 1287	. 1287
1.40	. 1265	. 1258	. 1254	. 1250	. 1246	1244	. 1241	. 1239	. 1238	. 1236	. 1235	. 1234	. 1233	. 1232	. 1232	. 1231
1.42	. 1210	1264	. 1200	9611.	. 1193	. 1196	. 1188	. 1186	. 1185	. 1183	. 1182	. 1181	. 1186	6211.	6211	8211.
1.44	6211.	. 1153	. 1148	1144	14-	. 1139	.1137	. 1135	.1134	.1132	.1131	.1130	. 1129	. 1128	.1128	.1127
1.46	1109	. 1103	. 1099	. 1095	. 1092	. 1090	. 1088	. 1086	. 1985	1084	. 1082	. 1082	1881	. 1080	6201	6201
1.48	. 1961	. 1056	. 1052	. 1048	. 1946	. 1643	. 1041	. 1040	. 1038	. 1037	. 1036	. 1035	. 1034	. 1034	. 1633	. 1632
1.50	. 1016	11011	1001	. 1003	1001	6666	2660	6669	1666	. 6993	. 0992	. 0991	0660	6860	6860	. 6988
1.60	. 6817	. 0813	. 0810	2080	. 0805	. 6803	. 9891	. 6866	6620	8620	2620	2620	9620	65620	2620	. 6794
1.76	6639	. 0655	. 0652	. 0650	.0648	.0647	.0646	. 9645	. 0644	. 0643	. 0642	. 0642	. 0641	. 9641	. 0640	. 9649
1.80	. 0532	. 0529	. 0527	. 0525	.0524	. 0522	. 0521	. 6521	.0520	. 0519	. 0519	. 0518	.0518	. 0517	. 0517	. 0517
	. 0431	.0428	. 0426	. 0425	. 0424	. 0423	. 0422	. 6421	. 0421	. 0420	.0450	. 0420	.0419	. 0419	. 0419	.0418
	. 0349	. 0348	.0346	. 0345	. 0344	. 0343	. 0343	. 0342	. 6342	. 0341	. 0341	. 0341	. 6340	. 0340	. 6346	. 6346
2.10	. 6 284	. 0283	. 0282	. 0281	.0280	6220	. 0229	.0278	. 0278	. 0278	. 0277	. 6277	. 6277	. 6277	. 8277	. 0276
	. 6232	. 6231	. 6230	. 0229	. 6228	. 0228	. 0228	. 0227	. 0227	. 0227	. 0226	. 0226	. 0226	. 0226	. 0226	. 9226
	0610	.0189	. 0188	. 0187	.0187	.0187	. 9186	.0186	.0186	.0185	. 0185	. 0185	.0185	. 0185	. 0185	. 9185
	.0156	. 0155	.0154	. 0154	. 6153	. 6153	.0153	.0153	.0152	. 0152	.0152	.0152	.0152	. 0152	. 0152	.0152
	. 0128	. 0127	. 0127	. 0127	.0126	.0126	.0126	.0126	.0125	. 0125	.0125	.0125	. 0125	. 0125	. 0125	. 0125
	9010	. 0105	. 0105	. 6164	.0104	.0104	. 0104	.0104	.0103	.0103	.0103	. 6163	.0103	. 6163	. 6163	. 6163
	. 0087	2800	. 9087	. 0086	. 0086	. 0086	.0086	. 0086	. 0086	. 0086	. 6685	. 0085	. 0085	. 6685	. 6685	. 0085
	2299	. 0072	. 8672	. 6672	1200	1200	. 9971	. 6671	. 0071	. 9971	1200.	1200.	1200	. 9971	1200	1200
2.90	. 9969	. 0960	. 6969	. 0060	. 0029	. 0059	. 0059	. 0059	. 69959	. 0059	. 0059	. 0059	. 0059	. 0059	. 6659	. 6659
3.00	. 0020	. 0020	. 6656	. 0050	. 0050	. 0049	. 0049	. 9649	. 6649	.0049	. 6649	6900	6000	. 9949	9999	6400
3.19	. 6642	. 0042	. 0042	. 0041	. 9641	. 6641	.0041	. 9941	1500	0041	. 9641	0041	0041	9041	9941	9041
3.20	. 0035	. 0035	. 0035	. 0035	. 0035	.0035	. 0035	. 0035	. 9934	. 0034	. 0034	. 0034	. 6634	. 0034	. 0034	. 0034
3.30	.0029	.0029	. 0629	. 0029	. 6629	.0029	.0029	. 0029	6003	6000	. 0029	9029	9939	9000	9000	9009
3.40	. 0025	. 0025	. 0025	. 0025	. 0025	.0024	.0024	. 0024	. 0024	. 6024	. 6624	0024	6024	9024	9924	0024
3.50	. 9621	. 0021	. 6621	. 6621	. 6021	.0021	. 6621	. 9921	. 0021	. 0021	. 0021	. 0021	. 0021	. 6621	0021	9000
3.60	. 0018	.0018	8100.	. 9918	2100	2100.	2100	2100	2100	2100	2100	6617	2100	2100	2100	9917
3.70	. 0015	.0015	.0015	. 6615	. 0015	. 0015	. 0015	. 0015	. 0015	. 0015	. 0015	. 6615	. 0015	. 0015	. 6615	. 0015
3.80	.0013	.0913	. 6013	. 0013	. 6613	. 6613	. 6613	. 6613	. 0013	.0013	. 6613	. 6612	. 6612	. 6612	0012	.0012
8	9999	0000	0000	0000	0000	0000	9999	0000	9999	0000	0000	0000	0000	9000	9999	0000
							-									

AS

OFFSET CIRCLE PROBABILITIES DISTANCE DAMAGE SIGMA $(\sigma_{\mathbf{d}}) = 50\% \ \mathrm{WR}$

15.66	15.50 1		16.50	00.21	17.50	18.66	18.50	19.00	19.50	29.99	8
9666.			-						0000		
9666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666	6666
	9666	2666	2666	8666	8666	8666	8666	6666	6666	6666	6666
9940	9986	9986	9966	9966	9666	0666	1666	999	2666	2666	6666
. 9866	9820	9874	2286	9886	. 9883	9886	.9888	9891	. 9893	9862	. 9931
1126	2126	9721	9226	9236	.9734	.9737	9740	.9743	.9746	.9748	2626
. 9468	9474	6446	9484	9488	.9492	.9446	.9499	.9503	.9595	.9568	.9562
. 9132	. 9138	9143	9148	.9152	.9156	.9159	.9163	.9166	6916.	.9171	.9223
. 8714	. 61 28	8723	8727	8731	.8735	.8738	.8741	. 8744	.8746	.8748	.8794
. 8230	8234	8238	8241	8244	.8247	.8250	. 8252	.8254	.8256	. 8258	.8296
. 1922.	. 4022	. 2022	0122	2177	.7715	2122.	. 7718	.7720	.7722	.7723	.7752
. 7148	7151	7153	7155	2126	.7158	6212.	1912.	.7162	.7163	7164	.7185
. 6589	6591	6592	6593	6594	.6596	.6596	. 6597	.6598	.6599	.6699	.6613
. 6038	6639	6949	6640	.6941	.6042	.6042	.6043	.6943	. 6044	. 6944	.6952
. 5565	5506	5506	2929	2999	.5597	.5508	.5508	. 5598	.5508	. 5508	.5512
. 5000	5000	5000	5000	5000	.5000	.5000	.5000	.5888	.5000	.5000	.5000
. 4525	4525	4524	4524	.4524	. 4524	4524	. 4524	.4524	. 4523	. 4523	.4521
. 4084	4684	4083	4683	. 4983	. 4082	. 4082	. 4082	.4082	. 4081	.4081	.4077
. 3678	. 3678	3677	2298	.3676	.3676	.3676	.3675	.3675	.3675	.3674	.3670
. 3307	. 3306	3306	3305	.3305	.3304	.3304	.3303	.3303	.3303	.3303	.3297
. 2969	2968	2968	2962	2962	. 2966	. 2966	. 2965	. 2962	. 2965	. 2964	. 2959
. 2663	. 2662	2661	2661	.2660	.2660	.2659	.2659	.2659	.2658	.2658	. 2652
. 2386	. 2385	2385	2384	. 2384	. 2383	. 2383	. 2383	. 2382	. 2382	. 2382	.2376
. 2137	. 2137	2136 .	2135	.2135	.2135	.2134	.2134	.2134	.2133	.2133	.2127
. 1914	. 1913 .	1912	1912	. 1912	11911	. 1911	. 1910	. 1910	. 1910	. 1910	1964
. 1713	. 1713	.712	1712	11211	1121.	0121.	0121.	0121.	0121.	6021	1704
. 1534	. 1533	1533	1532	. 1532	. 1531	. 1531	. 1531	. 1531	. 1530	. 1530	. 1526
. 1373	. 1373	1372	1372	. 1371	1321	. 1371	. 1370	. 1370	. 1370	. 1370	. 1366
. 1229	1229	1229	1228	. 1228	. 1228	1227	. 1227	. 1227	. 1227	. 1227	. 1223
. 11011 .	1101	1101	1100	. 1166	. 1100	. 1099	6601	. 1099	. 1099	6691	. 1095
2860	. 9860	. 9860	9860	9860	. 0985	. 0985	. 0985	. 0985	. 0985	. 0984	. 0981
. 6620.	. 6620	. 8620	6620	2620	. 0792	. 0792	. 6292	. 0792	1620.	1620.	6820
. 0639	. 6639	. 6636	9638	.0638	.0638	.0638	.0638	. 9638	. 9638	.0638	. 9635
. 9216	. 0516	. 9216	9216	. 0515	. 0515	. 0515	. 0515	. 0515	. 0515	. 0515	. 0513
. 0418	. 0418	0418	2140	. 0417	. 0417	. 0417	. 0417	. 0417	. 0417	. 0417	. 0415
. 6339	. 6339	6339	6336	. 6339	. 0339	. 6339	. 0338	. 0338	. 0338	. 0338	. 0337
. 0225	. 0225	6225	0225	. 0225	. 0225	. 0225	. 0225	. 0225	. 0225	. 0225	. 0224
. 0151	. 0151	0151	0151	.0151	. 0151	.0151	.0151	. 6151	. 0151	.0151	.0151
. 6163	. 6163	. 6010	6163	.0103	.0103	.0103	. 0103	.0103	.0103	. 0103	.0102
. 0071	. 1200	. 1200	0071	1200	0200	0200	0200	0200	0200	0200	0200
. 0049	. 6646	. 6400	6646	. 0049	. 6646	. 0049	. 0049	. 6649	. 0049	. 6649	. 6646
. 0034	. 6634	0034	9934	. 0034	. 0034	. 0034	. 6634	. 0034	. 6634	. 6634	. 6634
. 6666	. 0000	. 0000	0000	. 0000	. 0000	0000	0000	0000	. 0000	0000	9999
11534 11229 11229 11229 11229 11229 11229 11229 11229 11229 11229 11229 11229 11239	11233 11373 11373 11373 11091		1533 1222 1225 1226 1916 1916 1916 1925 1925 1925 1925 1925 1933 1967 1933 1967 1968 1968 1968 1968 1968 1968 1968	11372 11532 11272 11272 11272 11272 11273 11272 11273 11272 11273 11272 11273 11272 11273 11272 11273 11273 11273		11532 11532 11532 11528 11528 11528 11532	1532 1532 1532 1532 1532 1532 1532 1532	1532 1532 1531 1532 1532 1531 1228 1228 1228 1100 0100 0100 0986 0196 0196 0986 0985 0792 0658 06515 06515 0417 04417 0417 04417 0418 0103 0103 0671 0671 0670 0671 0671 0670 0671 0671 0670 0671 0671 0670 06034 06049 06040 06040 06060 06060 0606	1532 1532 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1532 1531 1531 1531 1532	1532 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1531 1532 1528 1228 1228 1228 1228 1228 1238	1372 1532 1531 1532 1528

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